The CINCINNATI TOOL COMPANY

HARGRAVE

CINCINNATI
U. S. A.

This scan is of the public domain content of the 1981 reprint by Roger K. Smith.

MECHANICS' TOOLS

H

HARGRAVE
QUALITY

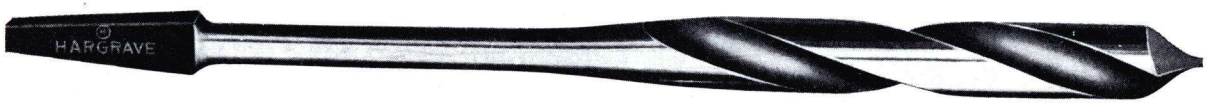
THE CINCINNATI TOOL COMPANY

NORWOOD, CINCINNATI, OHIO, U. S. A.

1923

BIT STOCK DRILL

Stock No. 1 For Wood



Price, per dozen,	2/32	$ 3.25
" " "	3/32	3.25
" " "	4/32	3.25
" " "	5/32	3.50
" " "	6/32	4.00
" " "	7/32	4.50
" " "	8/32	5.00
" " "	9/32	5.50
" " "	10/32	6.00
" " "	11/32	6.50
" " "	12/32	7.00
" " "	13/32	7.50
" " "	14/32	8.00
Price, per dozen,	15/32	$ 8.75
" " "	16/32	9.50
" " "	17/32	10.25
" " "	18/32	11.00
" " "	19/32	11.75
" " "	20/32	12.50
" " "	22/32	14.50
" " "	24/32	16.50
" " "	26/32	18.50
" " "	28/32	21.00
" " "	30/32	24.00
" " "	32/32	27.00

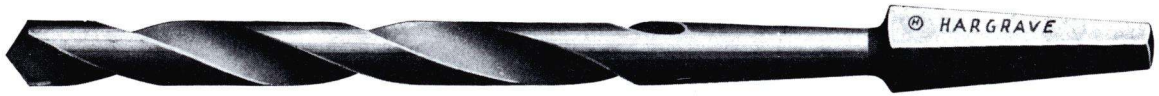
2/32 to 12/32, inclusive, packed one dozen in a box.

13/32 to 32/32, inclusive, packed one-half dozen in a box.

THE CINCINNATI (H) TOOL COMPANY
HARGRAVE

BIT STOCK DRILL

Stock No. 2 For Metal



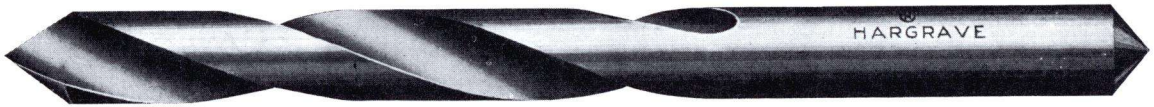
Price, per dozen,	2/32	$ 2.50
" " "	3/32	2.70
" " "	4/32	3.00
" " "	5/32	3.50
" " "	6/32	4.00
" " "	7/32	4.50
" " "	8/32	5.00
" " "	9/32	6.00
" " "	10/32	7.00
" " "	11/32	8.00
" " "	12/32	8.50
" " "	13/32	9.25
" " "	14/32	10.50
Price, per dozen,	15/32	$11.75
" " "	16/32	13.00
" " "	17/32	14.25
" " "	18/32	15.50
" " "	19/32	16.75
" " "	20/32	18.00
" " "	22/32	21.00
" " "	24/32	24.00
" " "	26/32	27.00
" " "	28/32	30.00
" " "	30/32	33.00
" " "	32/32	36.00

2/32 to 12/32, inclusive, packed one dozen in a box.

13/32 to 32/32, inclusive, packed one-half dozen in a box.

MACHINE CHUCK DRILL

Stock No. 3 For Wood



		Length	
Price, per dozen,	2/32	2½ inches	$ 1.60
" " "	3/32	2¾ "	1.70
" " "	4/32	3 "	1.80
" " "	5/32	3¼ "	1.90
" " "	6/32	3½ "	2.25
" " "	7/32	3¾ "	2.75
" " "	8/32	4 "	3.25
" " "	9/32	4¼ "	3.80
" " "	10/32	4½ "	4.35
" " "	11/32	4¾ "	5.05

		Length	
Price, per dozen,	12/32	5 inches	$ 6.00
" " "	13/32	5¼ "	7.00
" " "	14/32	5½ "	8.50
" " "	15/32	5¾ "	10.00
" " "	16/32	6 "	12.00
" " "	17/32	6¼ "	12.50
" " "	18/32	6½ "	13.00
" " "	19/32	6¾ "	13.50
" " "	20/32	7 "	14.00

2/32 to 12/32, inclusive, packed one dozen in a box.

13/32 to 32/32, inclusive, packed one-half dozen in a box.

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

BELL HANGERS' AND ELECTRICIANS' DRILL

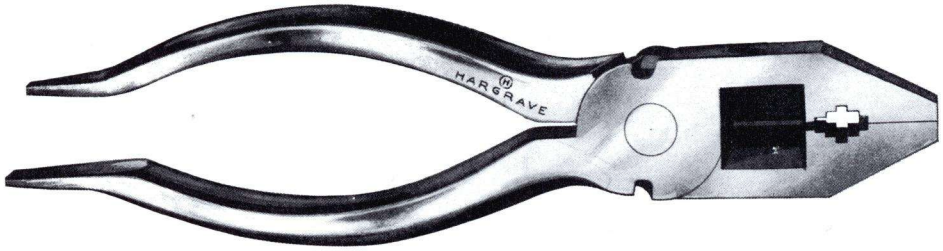
Stock No. 13

This drill is made particularly for bell hangers, car builders,electricians, telephone and telegraph workers. It will go through a nail or screw, through plastering or brick walls, without injury to the bit. It is readily sharpened on an emery wheel or grindstone and it is without question the most durable and satisfactory drill made. If you have experienced trouble with breaking of drills, this drill will overcome your difficulty. We stock the following lengths and sizes:

SIZES	LENGTHS				
	12-inch	18-inch	24-inch	30-inch	36-inch
	Per Dozen	Per Dozen	Per Dozen	Per Dozen	Per Dozen
6-32	$ 7.50	$10.00	$12.50	$15.00	$17.50
8-32	8.00	10.50	13.00	15.50	18.00
10-32	8.75	11.00	13.50	16.00	18.50
12-32	9.50	12.00	14.50	17.00	19.50
14-32	10.50	13.00	15.50	18.00	20.50
16-32	12.00	14.50	17.00	19.50	22.00
18-32	13.50	16.00	18.50	21.00	23.50
20-32	15.25	17.75	20.25	22.75	25.25
22-32	17.00	19.50	22.00	24.50	27.00
24-32	19.00	21.50	24.00	26.50	29.00
26-32	21.00	23.50	26.00	28.50	31.00
28-32	23.00	25.50	28.00	30.50	33.00
30-32	25.00	27.50	30.00	32.50	35.00
32-32	27.50	30.00	32.50	35.50	38.00

Packed one-half dozen in a box.

COMBINATION PLIER



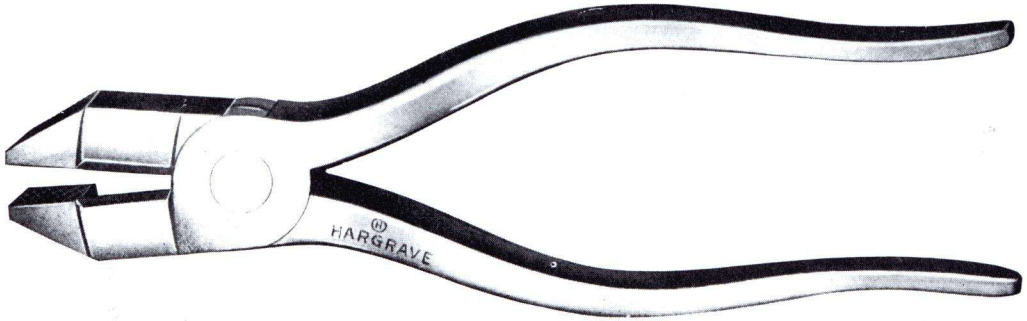
This cut represents our combination plier. It is made of the very best tool steel, well tempered and finished. It is a combination of flat nose and gas plier with wire and side cutters and has screw driver and reamer at the end of the handles. Every care is taken to make this the best article of its kind in the market. Each tool tested.

		Price, per doz.
Stock No.	80—Polished, length **6** in	**$21.00**
" "	81—Black, length **6** in	**19.50**
" "	82—Insulated handles, polished head, length **6** in	**24.00**
" "	83—Insulated handles black, length **6** in.	**22.50**
" "	84—Polished, length **7** in	**24.00**
" "	85—Black, length **7** in	**21.00**
" "	86—Insulated handles, polished head, length **7** in	**27.00**
" "	87—Insulated handles, black, length **7** inches	**24.00**

Nos. 80-83—Size per package, 7x3x2 inches; weight, per package, 3½ pounds; packed one-half dozen in a box.

Nos. 84-87—Size, per package, 7¾x3½x2 inches; weight, per package, 4½ pounds; packed one-half dozen in a box.

LINEMAN PLIER

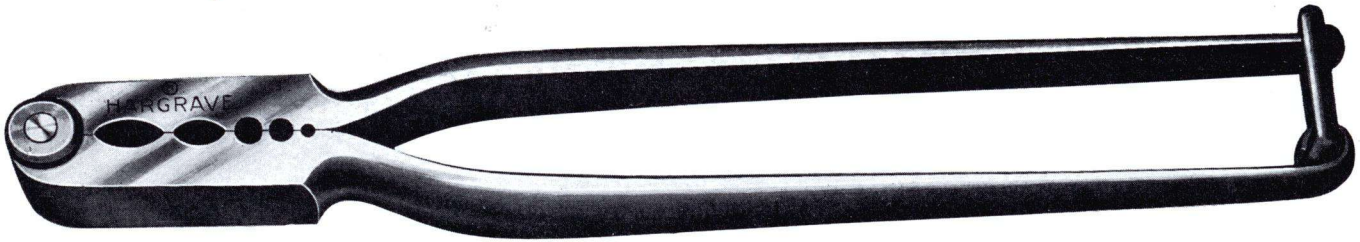


This represents our new lineman plier, made of the very best tool steel, drop forged. We recommend this to be the best plier on the market in quality and finish. Each tool tested.

		Price, per dozen
Stock No.	88—Polished, length **8** in	**$27.00**
" "	89—Black, length **8** in	**24.00**
" "	90—Insulated handles, polished head, length, **8** in	**30.00**
" "	91—Insulated handles, black, length **8** in.	**27.00**

Size, per package, 8¾x4¼x2 inches; weight, per package, 5½ pounds; packed one half dozen in a box.

SPLICING CLAMP

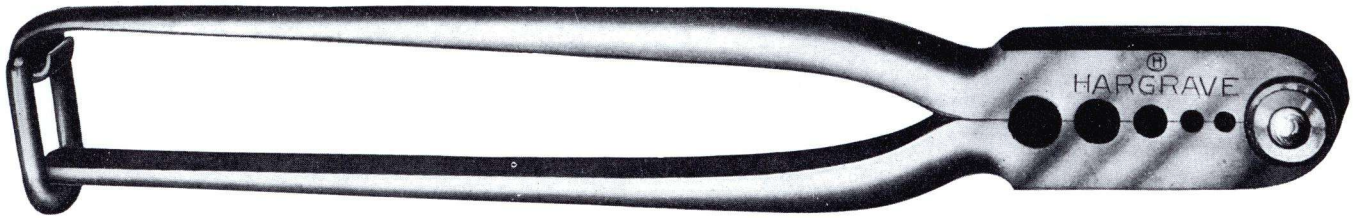


These goods are made of specially prepared steel, well tempered and finished. The rivet is of the best tool steel and hardened, preventing the tool from spreading at the head.

Numbers 92 to 97 are for telegraph work, taking in Nos. 4, 6, 8, 9 iron wire.

Stock No. 92—Full polished, holes as shown above, per doz...$30.00
" " 93—Half polished, holes as shown above, per doz... 28.00
" " 94—Black polished, holes as shown above, per doz... 27.00
Stock No. 95—Full polished,, holes reversed, per doz.....$30.00
" " 96—Half polished, holes reversed, per doz..... 28.00
" " 97—Black polished, holes reversed, per doz..... 27.00

Weight of package, 7 pounds, 4 ounces; size of package, 12¼x4x2¼ inches.



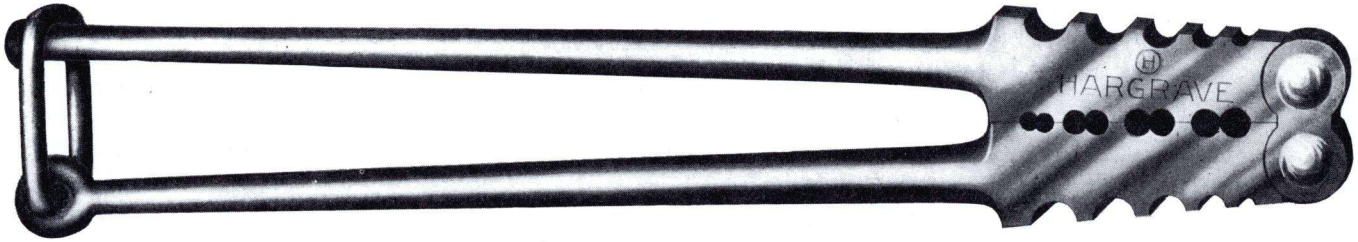
Numbers 98 to 103 are for telephone work, taking in No. 8 wire and finer.

Stock No. 98—Full polished, holes as shown above, per doz..$30.00
" " 99—Half polished, holes as shown above, per doz.. 28.00
" " 100—Black polished, holes as shown above, per doz.. 27.00
Stock No. 101—Full polished, holes reversed, per doz.....$30.00
" " 102—Half polished, holes reversed, per doz..... 28.00
" " 103—Black polished, holes reversed, per doz..... 27.00

Packed one-half dozen in a box; weight of package 7 pounds, 4 ounces; size of package, 12¼x4x2¼ inches.

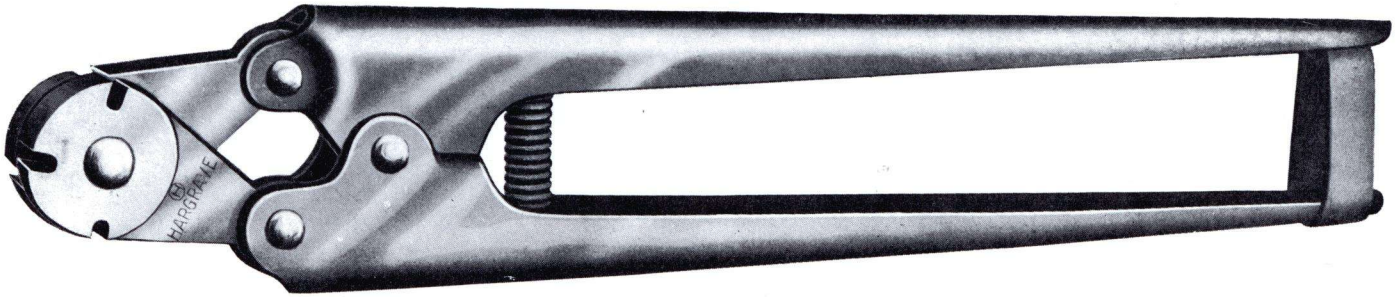
SPLICING CLAMP

Western Union Pattern



Five holes for Nos. 6, 8, 10, 12 and 14 iron wire; 4, 6, 8, 10, 12 copper wire and 8, 10, 12 and 14 sleeves; B & S gauge. Length, 10¾ inches
Stock No. 104—Polished, per dozen.....$38.00 Stock No. 105—Black, per dozen.....$34.00
Packed one-half dozen in a box. Weight of package, 7¾ pounds; size of package, 11x2½x2⅝ inches.

COMPOUND LEVER WIRE CUTTER



Length, 14½ inches; size of cutters, 15/64, 13/64, 11/64 inches.
Stock No. 106—List price, per dozen.....$60.00
Weight each, 1¾ lbs; size of package, 14¾x2¾x1 inch
Packed one in a box.

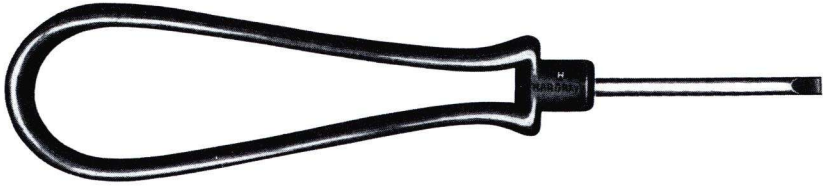
POLE CLIMBERS

This climber has an interchangeable spur, which is held to the frame of the climber by two rivets. The lineman can attach a new spur without heating the climber. By this construction we can use the most suitable grade of spring steel for the frame and can temper it correctly. Also we can thus use the best quality of tool steel for the spur and harden it so as to give the best wearing quality. The manner of attaching the spur does not weaken the frame of the climber. The loops for the strap are punched hot from the body of the frame and are smoothed out inside so as to prevent cutting the straps. The shape is entirely comfortable. A pair of 17-inch climbers weighs 3½ pounds. Weight of one set of straps, 1 pound. Light, but very strong. Each tool is tested. Made in all sizes, from 14 to 18 inches in length.

Prices as follows:

Stock No. 293.	Without Straps, per dozen pairs	$30.00
" " 294.	Straps, per set of four	2.00
" " 295.	Spurs, per dozen pieces	6.00

BRAD AWL

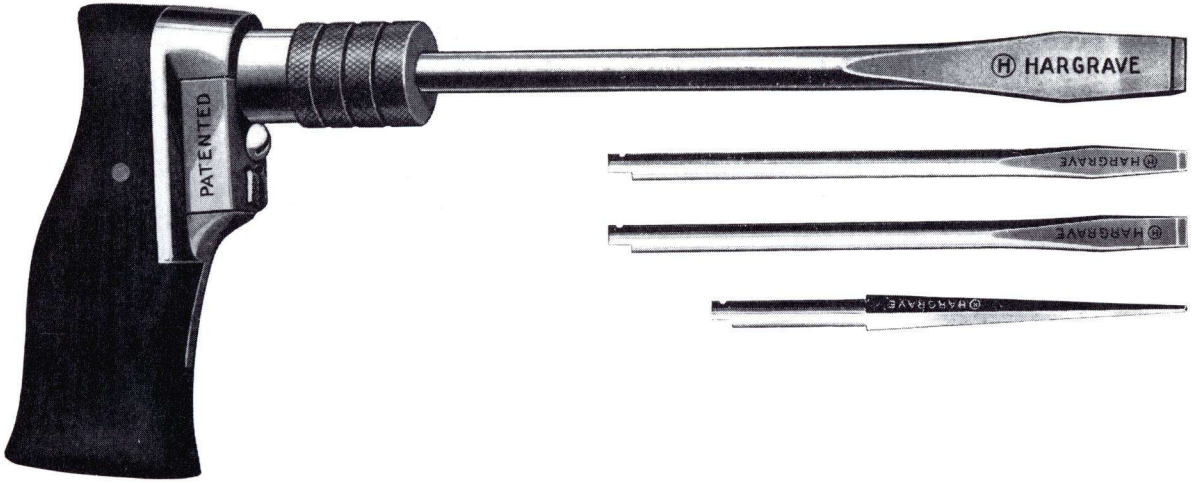


This awl will not turn in the handle nor pull out. It is made of the best steel, with malleable handle.

Stock No. 150—Price, per dozen, four sizes, assorted $2.00

Packed one dozen in a box; weight, per dozen, 1½ lbs; size, 5¾x3⅛x1⅝ inches.

PISTOL GRIP RATCHET SCREW DRIVER (With Interchangeable Blades)



This improved Screw Driver gives a firm grip to turn the most stubborn screw. It is a natural grip and will not tire the hand.

Easy running screws may be quickly turned without taking the hand from the handle with the knurled ferrule.

Two widths of blades are furnished to fit common size screws. The reamer is handy in starting screws and similar work. The blades are changed without adjustments.

Set consists of handle, two blades and reamer.

	Blades Only Each	Set Complete		Blades Only Each	Set Complete
3-inch	$0.40	$2.50	8-inch	$0.50	$2.70
4-inch	.40	2.50	10-inch	.60	2.90
6-inch	.50	2.70	12-inch	.60	2.90
Handle complete only, each				$1.20	
Reamer, each				.50	

Packed one set in a box. Weight per set, 1 lb. 2 oz. Size of package, 7½ x 3¼ x 1¼.

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

SCREW DRIVER

Hardwood Handle, Polished Blade and Cross Ground Tip

Stock No. 107

This screw driver is of the very best quality throughout. The blade is of a special chrome nickel steel, which almost entirely overcomes breakage. In fact, we guarantee the tools against breakage of any kind except hammering on the handle. The cross ground tip is a very great aid in preventing the screw driver from slipping from the slot of the screw. The blade is driven almost through the handle and is so securely fastened that it is absolutely guaranteed not to turn in handle. The handle is of hardwood, highly polished mahogany finish with nickel steel ferrule. Each tool is tested.

SCREW DRIVER

Hardwood Handle with Black Finished Blade and Two Polished Faces

Stock No. 119

This screw driver is exactly the same as No. 107 in all respects excepting the finish of the blade. Each tool is tested.

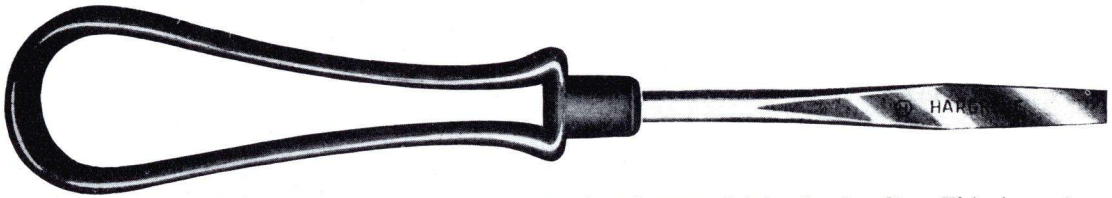
List Prices for both Nos. 107 and 119

Size	Price, per Doz.	Weight of Package	Size of Package
2½ in. blade	$ 3.00	1 lb. 1 oz.	9¼ x 3¼ x 1¼ in.
3 in. blade	3.50	1 lb. 1½ oz.	9¼ x 3¼ x 1¼ in.
4 in. blade	4.25	1 lb. 5 oz.	9¼ x 3¼ x 1½ in.
5 in. blade	5.00	1 lb. 13 oz.	10¼ x 4¼ x 1¼ in.
6 in. blade	6.00	2 lb. 3 oz.	11½ x 4¼ x 1¼ in.
7 in. blade	7.00	2 lb. 7 oz.	14 x 4¾ x 1¼ in.
8 in. blade	$ 8.00	3 lb. oz.	14 x 4¾ x 1¼ in.
9 in. blade	9.00	4 lb. 10 oz.	16½ x 5 x 1⅝ in.
10 in. blade	10.00	4 lb. 13 oz.	16½ x 5 x 1⅝ in.
12 in. blade	12.00	5 lb. 8 oz.	19 x 1¾ x 1¾ in.
15 in. blade	15.00	6 lb. 3 oz.	21½ x 5⅜ x 1¾ in.
18 in. blade	18.00	7 lb. 4 oz.	24½ x 5⅜ x 1¾ in.

Packed one-half dozen in a box.

SCREW DRIVER

Stock No. 131—Malleable Iron Handle



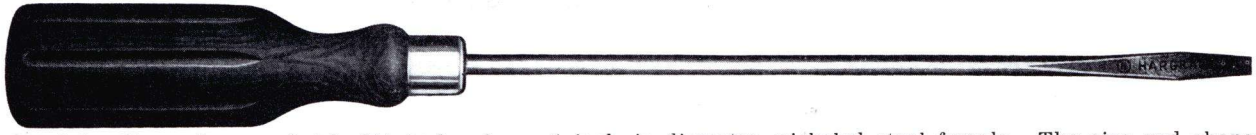
The handle is made of malleable iron, the blade of the best tool steel and pressed into the handle. This is a strong and neat tool for all kinds of light work.

Total Lengths	Price per Doz.	Weight of Package	Size of Package
5 inches	**$3.00**	1 lb. 2 oz.	6 ⅜ x 3 x 1 ½ in.
6 inches	**3.50**	1 lb. 4 oz.	6 ⅜ x 3 x 1 ½ in.
7 inches	**$4.00**	2 lb. oz.	8 ¾ x 3 ⅜ x 1 ½ in.
8 inches	**5.00**	2 lb. 3 oz.	8 ¾ x 3 ⅜ x 1 ½ in.

Packed one dozen in a box.

TELEPHONE AND CABINET SCREW DRIVER

Stock No. 135—Hardwood Handle

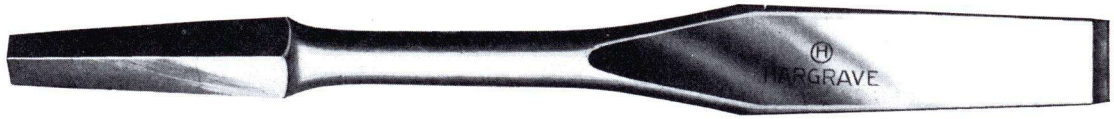


Hardwood fluted handle, mahogany finish, 3½ inches long; 1 inch in diameter, nickeled steel ferrule. The size and shape of this handle gives a much better grip than other telephone screw drivers have. The wood raises between the grip and ferrule, which prevents the fingers slipping onto the metal. Blade of best tool steel 3/16 inch in diameter. Polished.

Size	Price per Doz.	Weight of Package	Size of Package
1 ½ in. blade	**$ 3.00**	11 oz.	6 ½ x 3 ¼ x 1 ⅛ in.
2 ½ in. blade	**3.00**	12 oz.	6 ½ x 3 ¼ x 1 ⅛ in.
3 ½ in. blade	**3.50**	13 oz.	8 ½ x 3 ¼ x 1 ⅛ in.
4 ½ in. blade	**4.50**	13 ½ oz.	8 ½ x 3 ¼ x 1 ⅛ in.
5 ½ in. blade	**5.50**	14 oz.	10 ½ x 3 ¼ x 1 ⅛ in.
6 ½ in. blade	**$ 6.50**	14 ½ oz.	10 ½ x 3 ¼ x 1 ⅛ in.
8 ½ in. blade	**8.00**	16 oz.	12 ½ x 3 ¼ x 1 ⅛ in.
10 ½ in. blade	**9.50**	18 oz.	14 ½ x 3 ¼ x 1 ⅛ in.
12 ½ in. blade	**11.00**	20 oz.	16 ½ x 3 ¼ x 1 ⅛ in.

Packed one-half dozen in a box.

BRACE SCREW DRIVER BIT



Stock No. 144—Polished Finish Stock No. 148—Black Finish

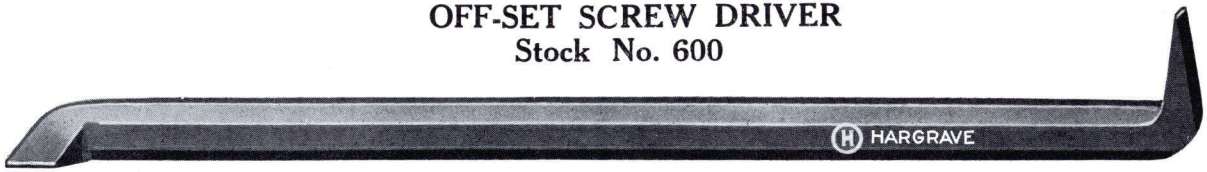
No. 144 has a highly polished finish, while No. 148 is finished black, only the two faces being polished. This brace screwdriver is as near trouble-proof as it is possible to make it. A special grade of chrome nickel steel is used, which almost entirely overcomes breakage. In fact, we guarantee this bit absolutely against breakage. The tip is cross-ground so that the screw driver will not slip from the slot of the screw, and is hardened so that it will wear indefinitely. This is the best tool of its kind on the market.

List Prices for both Nos. 144 and 148

Width of Blade	Price, Per Doz.	Weight of Package	Size of Package	Width of Blade	Price, Per Doz.	Weight of Package	Size of Package
1/4-inch	$4.00	1 lb. 0 oz	7 1/4 x 2 1/16 x 1 1/2 in.	3/8-inch	$5.00	1 lb. 13 oz	9 3/4 x 2 1/8 x 1 11/16 in.
5/16-inch	4.50	1 lb. 4 oz	7 1/4 x 2 1/16 x 1 1/2 in.	7/16-inch	5.50	2 lb. 3 oz	9 3/4 x 2 1/8 x 1 11/16 in.

Packed one dozen in a box.

OFF-SET SCREW DRIVER
Stock No. 600



Made from high-grade tool steel and properly tempered. For use in places where an ordinary screw driver cannot be used to advantage. Especially useful in assembling and for automobile work.

Size	Price, Per Doz.	Weight of Package	Size of Package	Size	Price, Per Doz.	Weight of Package	Size of Package
4 1/2 x 5/16 inches	$4.00	2 lbs. 0 oz	5 x 3 x 1 1/4 in.	8 x 3/8 inches	$5.00	3 lbs. 9 oz	8 3/4 x 3 1/4 x 1 1/2 in.
6 x 5/16 inches	4.50	3 lbs. 2 oz	6 1/2 x 3 x 1 1/4 in.	10 x 1/2 inches	7.00	8 lbs. 3 oz	11 3/4 x 4 1/4 x 2 in.

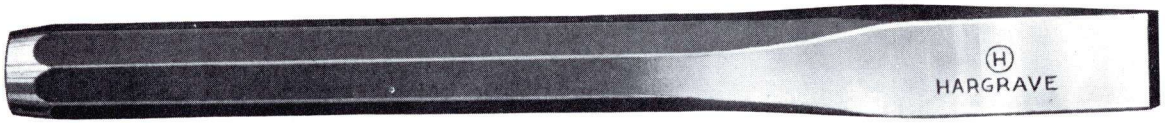
Packed one dozen in a box.

COLD CHISELS, GOUGES, PUNCHES

In all of the above tools, shown in the next few pages, we use a high-grade alloy tool steel in octagon shape. The design of each tool has been carefully worked out, giving proper balance and durability.

We make but one quality of all these tools, but we can supply two finishes: Polished blade and head with black enameled handle or Black oil finish. The oil finish takes a lower discount. State which is wanted. The oil or natural furnished goods will be furnished unless polished is specified.

COLD CHISELS



They are carefully hardened and hold a better edge than the ordinary carbon steel chisel, but it is almost impossible to break them. The width of the blade is the same as the diameter of the stock which gives a massive, durable tool and one which does not sting the hand. Each tool is given a working test. Following is a list of stock sizes.

Cold Chisel List Prices

NOT WIDENED AT POINT. SIZE OF STEEL IS SAME AS WIDTH OF BLADE.

Polished Stock No.	Natural Stock No.	Width of Blade	Length	Weight Per Doz.	Price Per Doz.
175	197	¼ in.	5 in.	14 oz.	$ 2.00
176	198	5/16 in.	5 in.	1 lb 7 oz.	2.40
177	199	⅜ in.	5 in.	2 lbs. 3 oz.	2.80
178	200	½ in.	6 in.	3 lbs. 12 oz.	3.40
179	201	⅝ in.	6½ in.	6 lbs. ...	4.20
180	202	¾ in.	7 in.	9 lbs. 4 oz.	6.00
181	203	⅞ in.	8 in.	14 lbs. 4 oz.	8.00
182	204	1 in.	8½ in.	19 lbs. 13 oz.	10.00
183	205	½ in.	8 in.	5 lbs. 4 oz.	4.60
184	206	⅝ in.	8 in.	7 lbs. 8 oz.	5.00
185	207	¾ in.	8 in.	10 lbs. 13 oz.	7.00
186	208	½ in.	10 in.	6 lbs. 7 oz.	5.00
187	209	⅝ in.	10 in.	9 lbs. 11 oz.	6.00
188	210	¾ in.	10 in.	14 lbs. 1 oz.	8.00
1880	2100	⅞ in.	10 in.	18 lbs. 7 oz.	10.00

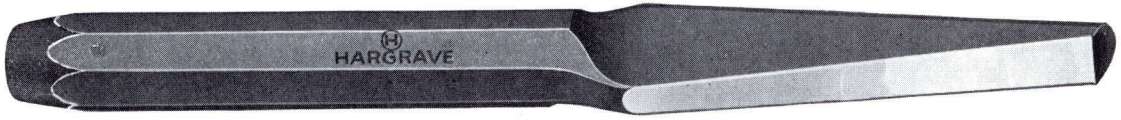
Polished Stock No.	Natural Stock No.	Width of Blade	Length	Weight Per Doz.	Price Per Doz.
1881	2101	1 in.	10 in.	22 lbs. 14 oz.	$12.00
1882	2102	½ in.	12 in.	9 lbs. oz.	6.50
1883	2103	⅝ in.	12 in.	12 lbs. ...	7.50
1884	2104	¾ in.	12 in.	16 lbs. 8 oz.	10.00
1885	2105	⅞ in.	12 in.	24 lbs. ...	12.00
1886	2106	1 in.	12 in.	26 lbs. 14 oz.	15.20
189	211	⅝ in.	15 in.	15 lbs. 7 oz	9.00
190	212	¾ in.	15 in.	22 lbs. 2 oz.	12.00
191	213	⅞ in.	15 in.	34 lbs. ...	15.00
192	214	1 in.	15 in.	41 lbs. ...	18.00
193	215	⅝ in.	18 in.	19 lbs. ...	9.50
194	216	¾ in.	18 in.	27 lbs. ...	13.00
195	217	⅞ in.	18 in.	37 lbs. ...	16.50
196	218	1 in.	18 in.	47 lbs 5 oz.	20.00

CAPE CHISELS

These chisels are of the same quality as our Cold Chisels. The high-grade forging of this tool and the careful design gives it a better balance than any other similar tool made. Following is a list of stock sizes:

Polished	Stock No. 2181	No. 2182	No. 219	No. 2183	No. 220	No. 221	No. 2184	No. 222	No. 2185
Natural	Stock No. 2186	No. 2187	No. 223	No. 2188	No. 224	No. 225	No. 2189	No. 226	No. 2190
Width of cutting edge	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8 in.
Length over all	4 1/2	5	6 1/2	7	7 1/2	8	8	8 1/2	9 in.
Diameter steel	5/16	3/8	1/2	5/8	5/8	3/4	3/4	7/8	1 in.
Price per dozen	$3.50	$4.25	$5.00	$5.50	$6.00	$7.50	$8.00	$9.00	$12.00
Weight per dozen	1 lb. 5 oz.	2 lbs.	3 lbs. 10 oz.	5 lbs 8 oz.	5 lbs. 11 oz.	10 lbs.	10 lbs. 8 oz.	15 lbs. 3 oz.	19 lbs. 8 oz.

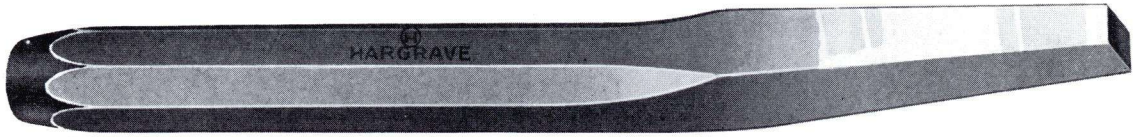
HALF ROUND GOUGES



These chisels are of the same quality as our Cold Chisels. The high-grade forging of this tool and the careful design gives it a better balance than any other similar tool made. Following is a list of stock sizes:

Polished	Stock No. 2191	No. 2192	No. 227	No. 2193	No. 228	No. 229	No. 2194	No. 230	No. 2195
Natural	Stock No. 2196	No. 2197	No. 231	No. 2198	No. 232	No. 233	No. 2199	No. 234	No. 2200
Width of cutting edge	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8 in.
Length over all	4 1/2	5	6 1/2	7	7 1/2	8	8	8 1/2	9 in.
Diameter steel	5/16	3/8	1/2	5/8	5/8	3/4	3/4	7/8	1 in.
Price per dozen	$3.50	$4.25	$5.00	$5.50	$6.00	$7.50	$8.00	$9.00	$12.00
Weight per dozen	1 lb. 5 oz.	2 lbs.	3 lbs. 10 oz.	5 lbs 8 oz.	5 lbs. 11 oz.	10 lbs.	10 lbs. 8 oz.	15 lbs. 3 oz.	19 lbs. 8 oz.

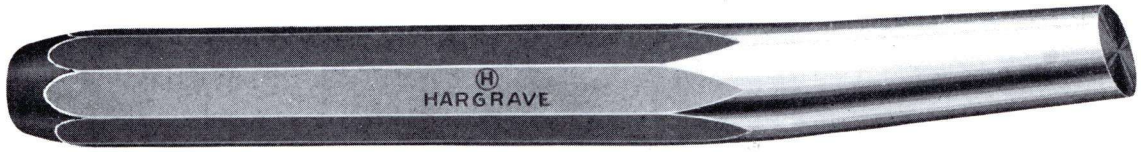
DIAMOND POINT CHISELS



e These chisels are of the same quality as our Cold Chisels. The taper is long, thus giving a tool which will last indefinitely. The handle is bent so as to allow the hand to clear the work, and also to bring the cutting edge in line with the handle. This chisel will not sting the hand. The following is a list of stock sizes:

Polished	Stock No. 2201	No. 2202	No. 235	No. 2203	No. 236	No. 237	No. 2204	No. 238	No. 239
Natural	Stock No. 2205	No. 2206	No. 240	No. 2207	No. 241	No. 242	No. 2208	No. 243	No. 244
Diagonal width of cutting edge	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8 in.
Length over all	4 1/2	5	6 1/2	7	7 1/2	8	8	8 1/2	9 in.
Diameter of steel	5/16	3/8	1/2	5/8	5/8	3/4	3/4	7/8	1 in.
Price per dozen	$3.50	$4.25	$5.00	$5.50	$6.00	$7.50	$8.00	$9.00	$12.00
Weight per dozen	1 lb. 5 oz.	1 lb. 14 oz.	3 lbs. 13 oz.	5 lbs. 8 oz.	6 lbs. 14 oz.	10 lbs. 14 oz.	11 lbs. 12 oz.	15 lbs. 6 oz.	24 lbs. 12 oz.

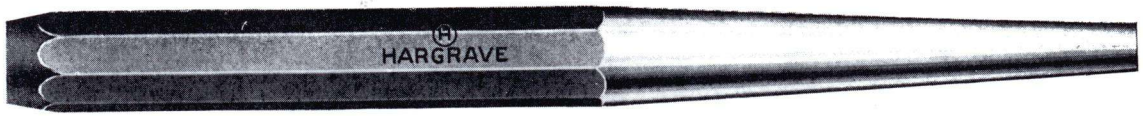
ROUND NOSE CHISELS



These chisels are of the same quality as our Cold Chisels. The taper is long, thus giving a tool which will last indefinitely. The handle is bent so as to allow the hand to clear the work, and also to bring the cutting edge in line with the handle. This chisel will not sting the hand. The following is a list of stock sizes:

Polished	Stock No. 2209	No. 245	No. 246	No. 247	No. 248	No. 249	No. 250	No. 2210	No. 2211
Natural	Stock No. 2212	No. 251	No. 252	No. 253	No. 254	No. 255	No. 256	No. 2213	No. 2214
Diameter of cutting edge	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8 in.
Length over all	4 1/2	5	6 1/2	7	7 1/2	8	8	8 1/2	9 in.
Diameter of steel	5/16	3/8	1/2	5/8	5/8	3/4	3/4	7/8	1 in.
Price per dozen	$3.50	$4.25	$5.00	$5.50	$6.00	$7.50	$8.00	$9.00	$12.00
Weight per dozen	1 lb. 5 oz.	1 lb. 10 oz.	3 lbs. 10 oz.	5 lbs. 6 oz.	6 lbs. 10 oz.	10 lbs. 8 oz.	11 lbs. 9 oz.	15 lbs.	24 lbs.

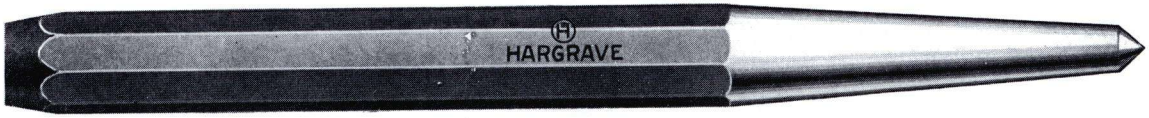
SOLID PUNCHES



These punches are made the same quality throughout as our Cold Chisels. The stock is heavy and the taper is long. They can be used as Pin Punches if desired. The cutting edge is ground to gauge.

Polished	Stock No. 257	No. 258	No. 259	No. 260	No. 261	No. 262
Natural	Stock No. 263	No. 264	No. 265	No. 266	No. 267	No. 268
Diameter of cutting edge..	5/32	3/16	¼	5/16	⅜	½ in.
Diameter of steel.....	⅜	⅜	½	½	⅝	⅝ in.
Length over all.....	5	5½	6	6	7	8 in.
Price per dozen.....	$2.20	$2.40	$3.60	$4.80	$5.00	$6.00
Weight per dozen.....	1 lb. 12 oz.	1 lb. 14 oz.	3 lbs. 8 oz.	3 lbs. 12 oz.	6 lbs. 6 oz.	7 lbs. 14 oz.

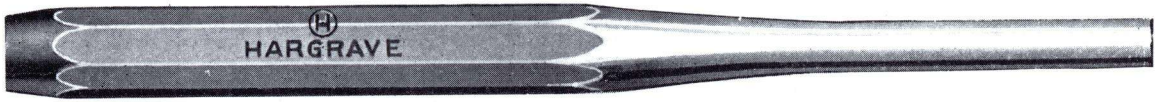
CENTER PUNCHES



Made of high-grade tool steel. The stock is heavy and the taper long, making a rigid and yet very handy tool. The forging and tempering are uniform. Order by size of steel.

Polished	Stock No. 281	No. 282	No. 283
Natural	Stock No. 284	No. 285	No. 286
Diameter of steel.....	¼	⅜	½ in.
Length over all.....	3	5	6 in.
Price per dozen.....	$1.85	$2.30	$4.80
Weight per dozen.....	9 oz.	1 lb. 8 oz.	3 lb. 12 oz.

PIN PUNCHES



These pin or clearance punches are well made, from the same high-grade steel used in our cold chisels. The point is the same size for some distance before the taper starts so the punch will drive out a pin, bolt or rivet without binding in the hole.

Polished	Stock No. 2861	No. 2862	No. 2863	No. 2864
Natural	Stock No. 2865	No. 2866	No. 2867	No. 2868
Diameter of point	1/8	3/16	1/4	5/16 in.
Length over all	6 1/2	6 1/2	7 1/2	7 1/2 in.
Diameter of steel	3/8	3/8	3/8	3/8 in.
Price per dozen	$4.00	$4.00	$4.00	$4.00
Weight per dozen	1 lb 9 oz.	1 lb. 11 oz.	1 lb. 14 oz.	2 lb. 10 oz.

PRICK PUNCHES

Made from the same material and with the same care as our other punches and cold chisels. Has reinforced taper, making a very durable tool.

Polished	Stock No. 2869	No. 2870	No. 2871
Natural	Stock No. 2872	No. 2873	No. 2874
Diameter of steel	1/4	3/8	1/2 in.
Length over all	3	5	6 in.
Price per dozen	$1.80	$2.30	$4.80
Weight per dozen	9 oz.	1 lb. 8 oz.	3 lb. 12 oz.

FLOOR OR WRECKING CHISELS

Our Floor or Wrecking Chisels are made from high-grade tool steel, oil tempered and hardened, making them very tough so they can be used for prying and at the same time will hold an edge, cutting off nails without injury to the tool.

No. 582—Cutting Edge, 1½ in.; Diameter of steel, ¾ in.; Length, 18 in.; Weight per dozen, 22 lb. 12 oz.; List per dozen.....**$12.40**

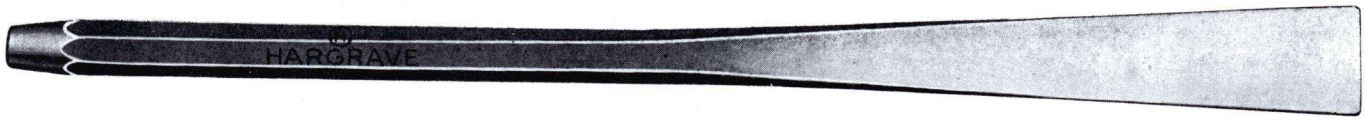
No. 583—Cutting Edge, 1½ in.; Diameter of steel, ¾ in.; Length, 18 in.; Weight per dozen, 22 lb. 12 oz.; List per dozen.....**$13.00**

Packed in Bulk.

Straight

STOCK NO. 582

1½x¾x18 in.



Bent

STOCK NO. 583

1½x¾x18 in.

ALL STEEL WOOD CHISELS

Hargrave All-Steel Wood Chisels are made for all classes of work. The design, quality of steel and temper are such that they will not break or take a set in cutting and prying. The handles will stand the use of a hammer without breaking, making them much more durable than the wood handle chisels. Blade is polished full length.

STRAIGHT

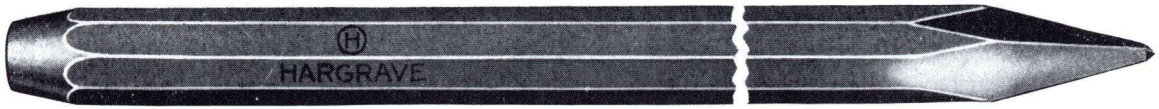
BENT

	Cutting Edge	Dia. of Steel	Length	Size of Package	Weight Per Dozen	Price Per Dozen
No. 577—Straight	½ in.	½ in.	10 in.	10½x1¼x1 in.	5 lbs. 4 oz.	**$ 7.00**
No. 578—Straight	¾ in.	⅝ in.	12 in.	12½x2¼x1 in.	10 lbs.	**$ 9.00**
No. 579—Straight	1 in.	⅝ in.	12 in.	12½x2¾x 1 in.	10 lbs. 12 oz.	**$ 9.00**
No. 580—Bent	¾ in.	⅝ in.	12 in.	12½x1¾x2 in.	10 lbs.	**$10.00**
No. 581—Bent.	1 in.	⅝ in.	12 in.	12½x2 x2 in.	10 lbs. 12 oz.	**$10.00**

Packed one-half dozen in a box.

THE CINCINNATI (H) TOOL COMPANY
HARGRAVE

STONE POINTS

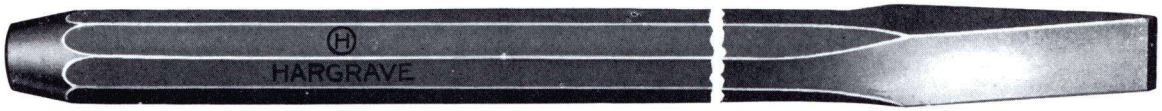


Made from high grade tool steel and properly tempered to give durability. Easily sharpened. Packed in bulk.

Natural Finish	Diam. of Steel	Length	Weight per Doz.	Price Per Doz.
Stock No. 584	¾ in	12 in	17 lbs. 9 oz	**$10.00**
" " 585	¾ in	15 in	22 lbs. 6 oz	**12.00**
" " 586	⅞ in	12 in	22 lbs. 12 oz	**12.00**
" " 587	⅞ in	15 in	27 lbs. 13 oz	**15.00**
" " 588	⅞ in	18 in	34 lbs. 12 oz	**16.50**

Natural Finish	Diam. of Steel	Length	Weight per Doz.	Price Per Doz.
Stock No. 589	1 in	12 in	27 lbs. 15 oz	**$15.20**
" " 590	1 in	15 in	36 lbs.	**18.00**
" " 591	1 in	18 in	44 lbs. 8 oz	**20.00**
" " 592	1 in	24 in	61 lbs. 5 oz	**23.00**

EXTRA LONG COLD CHISELS



These Long Chisels are well made, from the same high-grade steel used in our regular length Cold Chisels. Width of cutting edge is same as diameter of stock from which they are made. This insures durability and prevents stinging the hand. Packed in bulk.

Natural Finish	Width of Blade	Length	Weight per Doz	Price Per Doz.
Stock No. 205	½ in	8 in	5 lbs. 4 oz	**$ 4.60**
" " 206	⅝ in	8 in	7 lbs. 8 oz	**5.00**
" " 207	¾ in	8 in	10 lbs. 13 oz	**7.00**
" " 208	½ in	10 in	6 lbs. 7 oz	**5.00**
" " 209	⅝ in	10 in	9 lbs. 11 oz	**6.00**
" " 210	¾ in	10 in	14 lbs. 1 oz	**8.00**
" " 2100	⅞ in	10 in	18 lbs. 7 oz	**10.00**
" " 2101	1 in	10 in	22 lbs. 14 oz	**12.00**
" " 2102	½ in	12 in	9 lbs. oz	**6.50**
" " 2103	⅝ in	12 in	12 lbs. oz	**7.50**

Natural Finish	Width of Blade	Length	Weight per Doz	Price Per Doz.
Stock No. 2104	¾ in	12 in	16 lbs. 8 oz	**$10.00**
" " 2105	⅞ in	12 in	24 lbs. oz	**12.00**
" " 2106	1 in	12 in	26 lbs. 14 oz	**15.20**
" " 211	⅝ in	15 in	15 lbs. 7 oz	**9.00**
" " 212	¾ in	15 in	22 lbs. 2 oz	**12.00**
" " 213	⅞ in	15 in	34 lbs. oz	**15.00**
" " 214	1 in	15 in	41 lbs. oz	**18.00**
" " 215	⅝ in	18 in	19 lbs. oz	**9.50**
" " 216	¾ in	18 in	27 lbs. oz	**13.00**
" " 217	⅞ in	18 in	37 lbs. oz	**16.50**
" " 218	1 in	18 in	47 lbs. 5 oz	**20.00**

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

WRECKING AND PINCH BARS

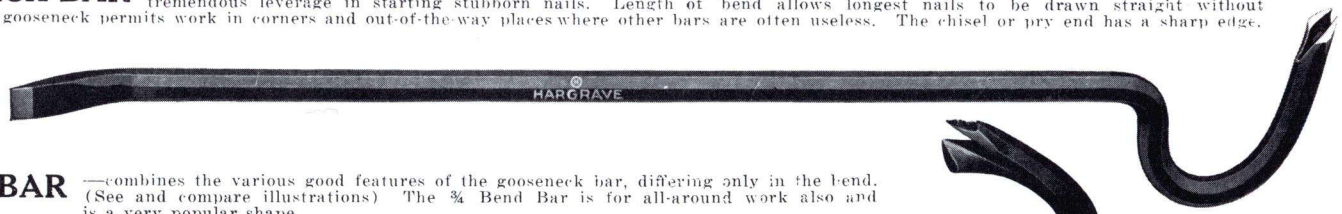
—are the result of long study and work to improve ordinary types to the highest point of efficiency.

All Hargrave Wrecking Bars have an exclusive feature in the spoon or gouge-shaped claw illustrated here. Ordinary bars have straight carpenter-hammer type of claw—impossible to get hold of a nail imbedded in the wood. Our gouge-shaped claw is sharpened and can be easily driven under a nail. The tough double beveled biting edges of the claw will not chip, bend or flatten, but draw out any nail with or without head.

High carbon steel instead of ordinary steel is used exclusively in Hargrave Bars and each is carefully oil-tempered and oil-hardened. They are made to stand up under the hardest service.

THE GOOSE-NECK BAR

—is used by wreckers, contractors, roofers and for other all-around work. The curve of the bar at the claw gives tremendous leverage in starting stubborn nails. Length of bend allows longest nails to be drawn straight without blocking up the bar. The gooseneck permits work in corners and out-of-the-way places where other bars are often useless. The chisel or pry end has a sharp edge, oil hardened, drawn and ground which can be used for many purposes. This edge is so turned that bar may lie flat on the floor, and in prying with it, the goose-neck end makes a good handle.



THE 3-4 BEND BAR

—combines the various good features of the gooseneck bar, differing only in the bend. (See and compare illustrations) The ¾ Bend Bar is for all-around work also and is a very popular shape.

THE 1-4 BEND BAR

—is similar to the other wrecking bars, but has the bend at the claw end at 45 degrees. Though not as good in corners and tight places, it is a very useful tool for straight open work.

HARGRAVE WRECKING BARS ARE THE BEST YOU CAN BUY

PINCH BAR

—is made with flat claw bent to 45 degrees at one end. The other end is pointed, shaped like a center punch—this is very useful in aligning two bolt holes in automobile and other machine work. A thousand uses may be found for a Hargrave Pinch Bar such as pulling cotter pins, removing tight bearing caps, etc.

Length	Size of Steel	GOOSE-NECK Stock No.	Wt. Per Doz.	Price	¾ BEND Stock No.	Wt. Per Doz.	Price	¼ BEND Stock No.	Wt. Per Doz.	Price	PINCH BAR Stock No.	Wt. Per Doz.	Price
12	½-inch	306—12	lbs. 8 oz.,	**$10.50**	313—12	lbs. 8 oz.,	**$10.00**	320— 9	lbs. oz.,	**$10.00**	327— 9	lbs. oz.,	**$ 4.40**
15	⅝-inch	" " 307—22	" 8 "	**12.00**	" " 314—22	" 8 "	**11.40**	" " 321—16	" 2 "	**11.00**	" " 328—16	" 2 "	**6.00**
18	⅝-inch	" " 308—25	" 8 "	**12.70**	" " 315—25	" 8 "	**12.00**	" " 322—19	" "	**11.60**	" " 329—19	" "	**7.50**
24	¾-inch	" " 309—45	" "	**15.00**	" " 316—45	" "	**14.00**	" " 323—37	" 8 "	**13.00**	" " 330—37	" 8 "	**9.70**
30	¾-inch	" " 310—55	" "	**16.00**	" " 317—55	" "	**15.00**	" " 324—46	" 2 "	**14.00**	" " 331—46	" 2 "	**12.00**
36	⅞-inch	" " 311—88	" "	**20.00**	" " 318—88	" "	**19.00**	" " 325—75	" 6 "	**17.50**	" " 332—75	" 6 "	**16.00**
42	⅞-inch	" " 312—100	" "	**25.00**	" " 319—100	" "	**24.00**	" " 326—88	" 2 "	**22.50**	" " 333—88	" 2 "	**18.50**

Packed in bulk.

BIT WRENCH

This new Bit Wrench has two sockets instead of one. They fit standard bit brace taper square shanks. The center socket has a pointed screw which holds the bit perfectly rigid. The other socket is used to give double leverage when desired or for close corner work with drill, reamer, screw driver or brace wrench.

Very useful; nicely enameled.
Stock No. 149—Price, per dozen.....$4.00

Packed one dozen in a box.

Weight of package, 4 pounds; size of package, 10¼x5x1 inch.

SPRING LEAF SPREADER

This simple tool is made with a frame of best grade malleable iron with a pointed crome nickle steel screw, hardened and drawn in oil. There is only one point to set between the leaves of the spring and consequently the tool is very easily adjusted. This feature also prevents breaking and bending. This is a very durable tool at a low price. It takes in any spring from an inch and one-quarter to three inches wide.

Stock No. 562—Price, per dozen.....$5.00

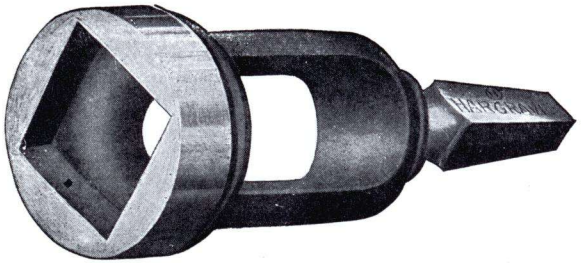
Weight of package, 6 pounds, 5 ounces

Size of package, 8x5¾x3⅝ inches

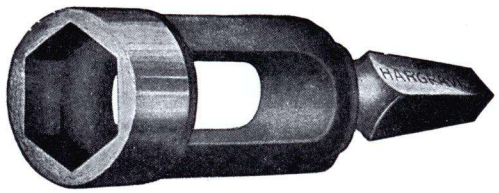
Packed one dozen in a box.

THE CINCINNATI (H) TOOL COMPANY
HARGRAVE

STANDARD BRACE SOCKET WRENCHES



These wrenches are made of malleable, hardened so as to give the greatest durability together with maximum strength. They are nicely finished. **Each size is accurately drifted to United States standard nut size.** A shoulder prevents the nut working far up into the wrench and the open shank prevents clogging with dirt, also enabling the user to handle the wrench in places where a brace would not go.



PLEASE ORDER BY STOCK NUMBER
SQUARE OPENINGS FOR U. S. STANDARD NUTS, CAP SCREWS AND SET SCREWS

Stock No.	*Size Opening	Bolt Size	Cap Screw	Set Screw	Price Per Doz.	Weight of Package	Size of Package
151	**5/16**			5/16	**$ 3.50**	1 lb. 6 oz.	5 x4 ¼ x1 ¼ in.
152	3/8		¼	3/8	**3.50**	1 lb. 12 oz.	5 x4 ¼ x1 ¼ in.
153	**7/16**	5/16	7/16		**4.00**	1 lb. 14 oz.	9 ¾ x4 ¼ x1 ¼ in.
154	½	¼	3/8	½	**4.50**	2 lbs. 6 oz.	9 ¾ x4 ¼ x1 ¼ in.
155	**19/32**	5/16	7/16	9/16	**5.00**	2 lbs. 11 oz.	9 ¾ x4 ¼ x1 ¼ in.
156	5/8		½	5/8	**6.00**	3 lbs. 4 oz.	9 ¾ x4 ¼ x1 ¼ in.
1560	**11/16**	3/8	9/16		**6.50**	4 lbs. 9 oz.	11 ¾ x5 x1 5/8 in.
157	**25/32**	7/16	5/8	¾	**7.00**	4 lbs. 11 oz.	11 ¾ x5 x1 5/8 in.
158	7/8	½	¾	7/8	**7.50**	5 lbs. 6 oz.	11 ¾ x5 x1 5/8 in.
159	**1**	9/16		1	**8.00**	6 lbs. 6 oz.	11 ¾ x5 x1 5/8 in.
160	**1 1/8**	5/8	7/8	1 1/8	**9.00**	4 lbs. 1 oz.	6 ¾ x5 ¾ x2 ¼ in.
161	**1¼**	¾	1	1 ¼	**10.00**	4 lbs. 14 oz.	6 ¾ x5 ¾ x2 ¼ in.
162	**7/16x7** in. long				**6.00**	4 lbs. 7 oz.	9 x3 ¼ x2 ¼ in.
163	**9/16x7** in. long				**7.00**	4 lbs. 10 oz.	8 ¾ x4 ¼ x2 in.

Packed one dozen in a box to and including the No.158 size. Nos. 159, 160, 161, 162 and 163 are packed one-half dozen in a box.

PLEASE ORDER BY STOCK NUMBER
HEXAGON OPENINGS FOR U. S. STANDARD NUTS AND CAP SCREWS

Stock No.	*Size Opening	Bolt Size	Cap Screw	Price Per Doz.	Weight of Package	Size of Package
165	**5/16**			**$ 3.50**	1 lb. 6 oz.	5 x4 ¼ x1 ¼ in.
166	3/8			**3.50**	1 lb. 6 oz.	5 x4 ¼ x1 ¼ in.
167	**7/16**		¼	**4.00**	1 lb. 9 oz.	9 ¾ x4 ¼ x1 ¼ in.
168	½	¼	5/16	**4.50**	2 lbs. oz.	9 ¾ x4 ¼ x1 ¼ in.
169	**19/32**	5/16	3/8	**5.00**	2 lbs. 2 oz.	9 ¾ x4 ¼ x1 ¼ in.
170	5/8		7/16	**6.00**	2 lbs. 7 oz.	9 ¾ x4 ¼ x1 ¼ in.
171	**11/16**	3/8		**6.50**	3 lbs. 1 oz.	9 ¾ x4 ¼ x1 ¼ in.
172	**25/32**	7/16	½	**7.00**	3 lbs. 11 oz.	11 ¾ x5 x1 5/8 in.
173	7/8	½	5/8	**7.50**	4 lbs. 6 oz.	11 ¾ x5 x1 5/8 in.
1731	**1**	9/16	¾	**8.00**	3 lbs. 2 oz.	6 ½ x5 x1 ¾ in.
1732	**1 1/8**	5/8	7/8	**9.00**	3 lbs. 2 oz.	6 ½ x5 x1 ¾ in.
1733	**1¼**	¾	1	**10.00**	3 lbs. 15 oz.	6 ¾ x5 ¼ x2 ¼ in.

Packed one dozen in a box to and including the No. 173 size. Nos. 1731 1732 and 1733 are packed one-half dozen in a box.

***Size opening given above for both Square and Hexagon Wrenches is measurement from flat to flat**

Stock No. 164 Set, one each of the following sizes, packed in a box: Nos. 151 152, 153, 154, 155, 156, 1560, 157, 158, 159, 160 and 161. List price..**$7.50**

Stock No. 174 Set, one each of the following sizes packed in a box: Nos. 165 166, 167, 168, 169, 170, 171, 172, 173, 1731, 1732, 1733. List price..**$7.50**

Complete information as to sizes is given above. Ordering by Stock Number will eliminate all confusion and insure the proper size being shipped.

SCREW AND PLUG BIT

This tool is made especially for finishing fine work using plugs instead of putty to cover the screw heads. It can be gauged so as to give the correct depth for the screw and plug, boring both holes in one operation. The knives are made of the very best tool steel. With the screw and plug bit we furnish a plug cutter to match.

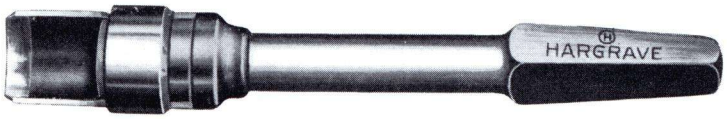
Diameter of drills fitted to sizes as follows: ½ inch with ⅛ inch drill; 9/16 inch with 9/64 inch drill; ⅝ inch with 5/32 inch drill.

	Diameter	Price, Per Set	Weight of Package	Size of Package
Stock No.	350—½-in., with plug cutter,	$4.50	7½ oz.	7¼x2¼x1½ in.
" "	351—$\frac{9}{16}$-in., with plug cutter,	4.80	9 oz.	7¼x2¼x1½ in.
" "	352—⅝-in., with plug cutter,	5.00	10 oz.	7¼x2¼x1½ in.
" "	353—Knives only, bent, per dozen			$5.00
" "	354—Knives only, straight, per dozen			4.00

Round Shanks 25% extra.

Packed one set in a box.

IMPROVED PLUG CUTTER



This is intended to cut the plug to cover the head of the screw on finely finished work. The knives are interchangeable and, in case one is broken, can be replaced at a small cost. They are made of the very best tool steel, carefully hardened, tempered and tested. By using steel bands and heavy gauge steel for blades, we are producing a very satisfactory plug cutter.

	Diameter	Price, per Doz.	Weight of Package	Size of Package
Stock No.	355—⅜-inch	$ 6.50	12 oz.	5¼x2¼x1⅜ in.
" "	356—$\frac{7}{16}$-inch	7.00	14 oz.	5¼x2¼x1⅜ in.
" "	357—½-inch	7.00	14 oz.	5¼x2¼x1⅜ in.
" "	358—$\frac{9}{16}$-inch	7.50	19 oz.	5¼x2¼x1⅜ in.
" "	359—⅝-inch	8.00	22 oz.	5¼x2¼x1⅜ in.
" "	360—¾-inch	10.00	28 oz.	5¼x3¼x1½ in.
" "	3601—⅞-inch	16.00	38 oz.	5¾x3⅛x1¾ in.
" "	3602—1 -inch	20.00	42 oz.	5¾x3⅛x1¾ in.
" "	361—Price, per dozen, knives only, ⅜, $\frac{7}{16}$, ½ or $\frac{9}{16}$ in.			$4.50
" "	362—Price, per dozen, knives only, ⅝, ¾, ⅞ or 1 in.			5.00
" "	363—Price, per dozen, extra rings, either size			2.00

Round Shanks 25% extra

Packed one-half dozen in a box

SPOKE POINTER

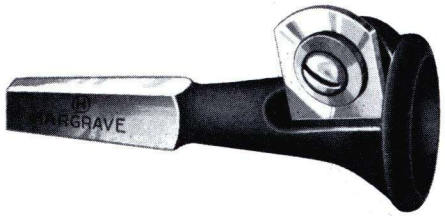
We make two sizes of Spoke Pointers, each size either with or without the gauge; the smaller size pointing to 1⅜ inches, and the larger to 2 inches. The knives are held by two screws, and so placed as to give a paring cut. This tool being made in one solid piece, insures the greatest possible strength. Regularly furnished with bit stock shank for brace, but can be furnished with round shank.

	Price Per Doz.	Weight of Package	Size of Package
Stock No. 342—Small size, with gauge.....	$13.50	2 lbs. 13 oz.	6⅜x5¾x3
" " 343—Large " " "	17.00	7 " 6 "	10⅝x6¼x3½
" " 344—Small " without gauge.	12.00	2 " 12 "	6⅜x5¾x3
" " 345—Large " " " .	15.00	7 " 4 "	10⅝x6¼x3½

" " 346—No. 342 and 344 knives only $4.50
" " 347— " 343 " 345 " " 6.00

Round shanks 25% extra.
Packed one-half dozen in a box.

DOWEL POINTER



Those requiring a dowel pointer will find this tool a great convenience—pointing any size dowel under ¾ inch. Knife is made of the best tool steel. Japanned and polished. Also made with round shank.

Stock No. 348—Price, per dozen..... $7.00
" " 349—Price, per dozen, knives only..... 3.00

Round shanks 25% extra.
Packed one-half dozen in a box.
Weight of package, 10 ounces; size of package, 4⅜x3¼x1⅝ inches.

ADJUSTABLE HOLLOW AUGER

Stock No. 334

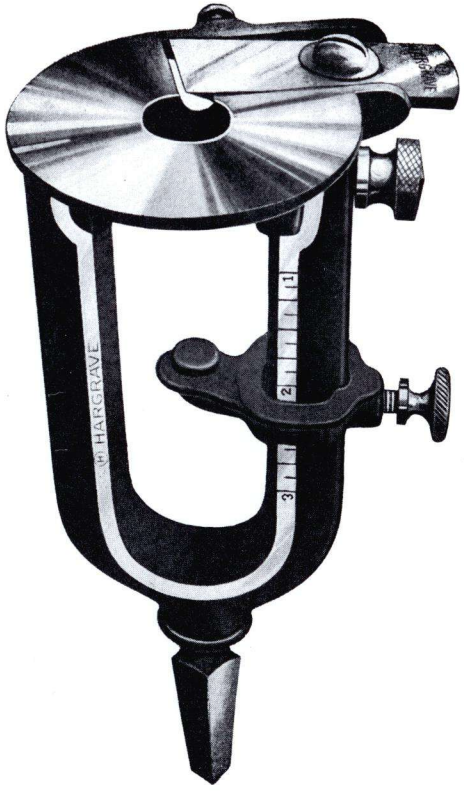
This tool cuts from ¼ to 1½ inches, and is operated by setting the slide on the top to the desired size, and centered by changing the scale on the side to correspond with that on the top. The length of the tenon is regulated by the sliding gauge on the side of the frame.

We claim the following points of superiority:

It is made of better material, cuts a longer and larger tenon, needs no screw-driver in adjusting, and there is no changing of position of the knife in cutting different sizes. Each tool tested.

Stock No. 334—Price, per dozen.....$90.00
" " 335—Price, per dozen, knives only..... 6.00

Packed one in a box; size each, 8⅜x4½x4⅜ inches; weight, each, 2 pounds 4 ounces.



STANDARD HOLLOW AUGER

Stock No. 336

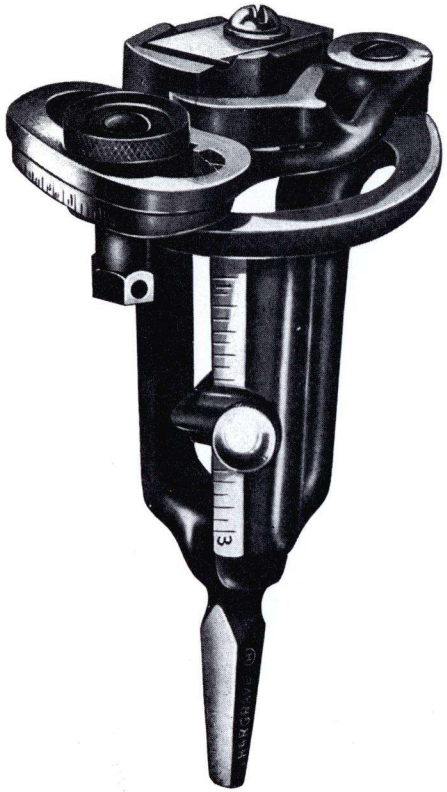
This represents our standard hollow auger, ready for use. The plates are separate from the frame, and all are interchangeable; they are attached to the frame by means of lug on one side and a thumb-screw on the other, making them perfectly rigid when in position. We make the plates to cut the following size tenons 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8 and 1 inch.

One frame and four plates constitute a set.

Stock No. 336—Price, per dozen sets	$80.00
" " 337—Price, per dozen plates, complete, with knife (give size)	14.00
" " 338—Price, per dozen, knives only	6.00
" " 339—Price, per dozen, frames only	24.00

Round Shanks extra.

Packed one set of 1 frame and 4 plates in a box; size of package, 7 3/8 x 3 3/4 x 3 inches; weight, 2 pounds 7 1/2 ounces.



IMPROVED ADJUSTABLE HOLLOW AUGER

Stock No. 340

Cuts any size tenon from ¼ inch to 1¼ inches, 3 inches long.

The knife of this auger is of the best tool steel, properly hardened and drawn. It is readily adjusted for a rough or finished cut. All castings are of best malleable iron. The frame is in one piece with a heavy forged steel shank. Only one adjustment for size is required. The adjusting nut is bronze. Each tool is tested.

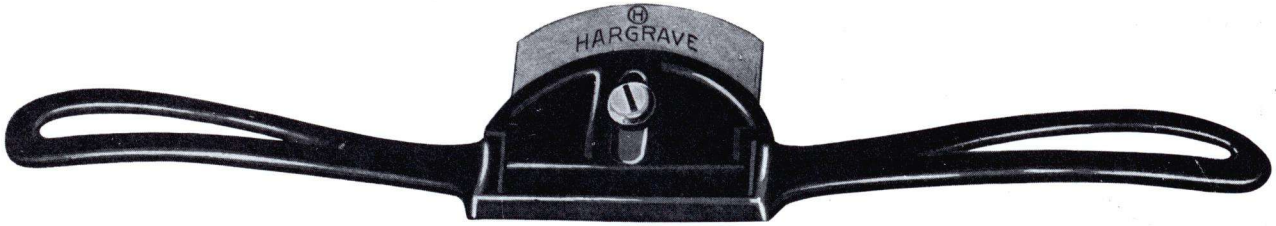
Stock No. 340—Price, per dozen.....$84.00
Stock No. 341—Price, per dozen, knives only..... 6.00

Round Shanks extra.

Packed one in a box; size, each, 7⅝x4⅜x3⅜ inches; weight, 1 pound 11 ounces.

SPOKE SHAVES

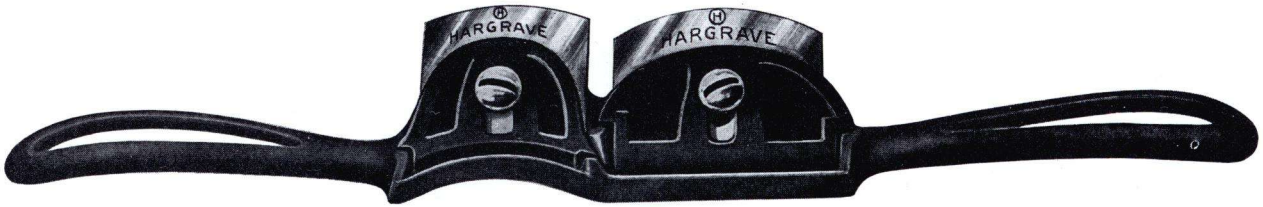
Stock No. 375



1¾-inch knife.

Stock No. 375—Price, per dozen.....$2.50
" " 376—Price, per dozen, knives only..... 1.50
Size of package, 10x3¾x3¾ inches; weight of package, 3½ pounds; packaged one dozen in a box.

Stock No. 377

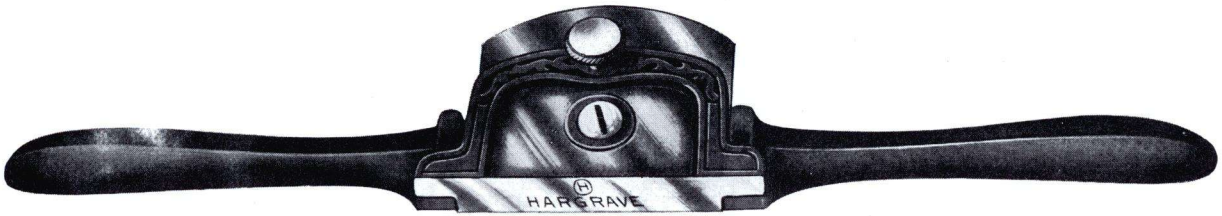


1¾-inch straight knife; 1¼-inch concave knife.

Stock No. 377—Price, per dozen.....$5.00
" " 378—Price per dozen, knives only, straight 1.50
" " 379—Price, per dozen, knives only, concave..... 2.00
Weight of package, 4 pounds 10 ounces; size of package, 10x3¾x3¾ inches; packed one dozen in a box.

SPOKE SHAVES

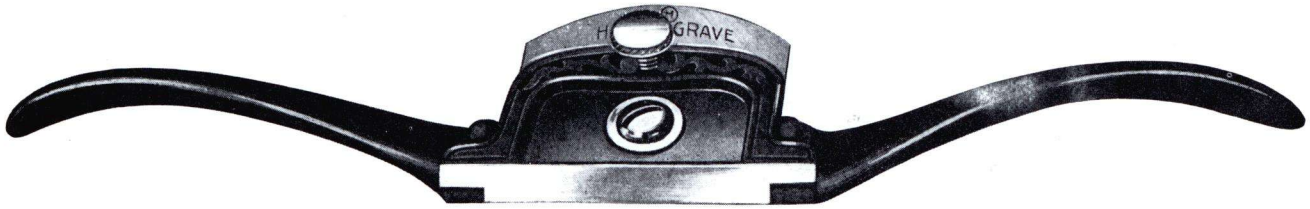
Stock No. 380



2⅛-inch knife.
Adjustable cap and throat, straight handle.

Stock No. 380—Price, per dozen.....$7.00
" " 381—Price, per dozen, knives only..... 4.50
Weight of package, 4 pounds 4 ounces; size of package, 10x3¾x3⅝ inches; packed one-half dozen in a box.

Stock No. 382



2⅛-inch knife.
Adjustable cap and throat, raised handle.

Stock No. 382—Price, per dozen.....$7.00
" " 383—Price, per dozen, knives only..... 4.50
Weight of package, 4 pounds; size of package, 10x3¾x3⅝ inches; packed one-half dozen in a box.

SPOKE SHAVES

Stock No. 384—Convex

2-inch knife; solid cap and throat.

Stock No. 386—Concave

2-inch knife; solid cap and throat.

These shaves are especially useful to stair builders, pattern and carriage makers. They are made of grey iron, japanned and polished. The handles are made of hardwood, with nickeled ferrules, and finely finished.

Stock No. 384—Price, per dozen.....$13.00
" " 386—Price, per dozen..... 13.00
Stock No. 385—Price, per dozen, knives only.....$6.00
" " 387—Price, per dozen, knives only..... 6.00

Weight of package, 5 pounds; size of package, 12x4½x3¼ inches; packed one-half dozen in a box.

SPOKE SHAVES

Stock No. 388

2⅜-inch knife; solid cap and throat.
This shape is intended especially for hardwood, or heavy cross-grain work.
Stock No. 388—Price, per dozen.....$12.00
" " 389—Price, per dozen, knives only..... 6.00
Weight of package, 6¾ pounds; size of package, 11x6¾x3¼ inches; packed one-half dozen in a box.

Stock No. 390

2⅜-inch knife; solid cap and throat. This shave cuts smoothly in a circle of four inches and over.
Stock No. 390—Price, per dozen.....$9.00
" " 391—Price, per dozen, knives only..... 6.00
Weight of package, 5 lbs.; size of package, 11x3¾x2¾ inches; packed one-half dozen in a box.

SPOKE SHAVES

Stock No. 392

1⅝-inch knife

This is intended solely for circle work, cutting in any circle from 1⅛ inches up. We have improved this tool by inserting two screws under the knife, adapting it for either thin or thick shaving. The shave is beautifully finished, having hardwood handles, with nickeled ferrules.

Stock No. 392—Price, per dozen.....$15.00
" " 393—Price, per dozen; knives only..... 8.00
Weight of package, 3 pounds 12 ounces; size of package 10¼x3¾x2½ inches; packed one-half dozen in a box.

BOX SCRAPER

This scraper is made with a heavy cast steel blade, which is held in place by a strong cap and screw. The knife is set at such an angle with the handle as to give a paring cut. It is 14 inches long, made of best refined iron, and nicely japanned and polished.

Stock No. 394—Price, per dozen.....$10.00
" " 395—Price, per dozen, knives only..... 5.00
Weight of package, 8 pounds 10 ounces; size of package, 14¼x6¼x2¾ inches; packed one-half dozen in a box.

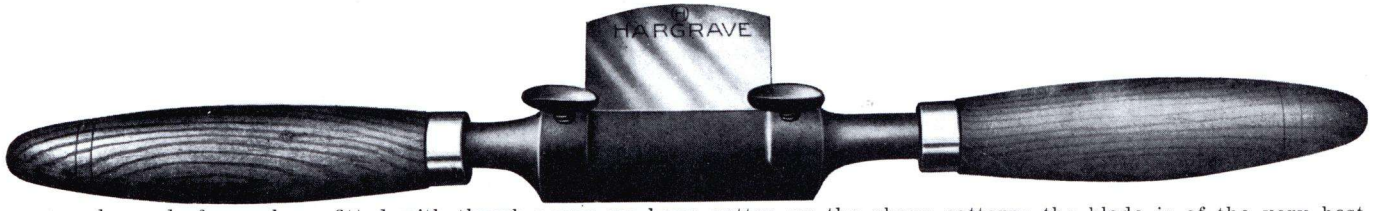
COOPER SHAVES
Stock Nos. 396, 397

Coopers will find this tool much superior to all others, as the knife is set at a less angle with the work, thereby cutting easier. The cap is heavier, holding the knife much firmer, and without trembling. The best tool steel in the blade.

	Price	Weight of Packageg	Size of Package
Stock No. 396—3-inch knife, per dozen	$16.00	5½ pounds	11x6¼x3¼ in.
" " 397—2½-inch knife, per dozen	15.00	5 pounds	11x6¼x3¼ in.
" " 398—3-inch, knives only, per dozen	8.00		

Packed one-quarter dozen in a box.

Stock No. 399



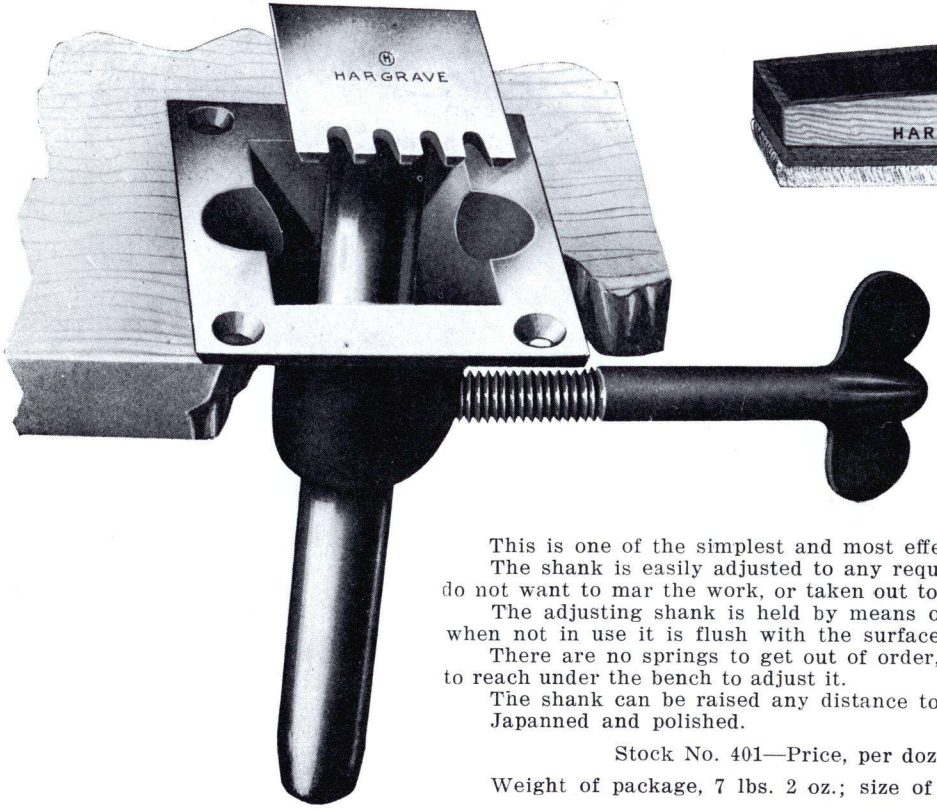
Having numerous demands for a shave fitted with thumb screw we have gotten up the above pattern; the blade is of the very best tool steel, carefully tempered. Handles of hardwood, well finished.

Stock No. 399—Price, per dozen (2½-inch blade) $16.00
" " 400—Price 7.00

Weight of package, 5 pounds, 6 ounces; size of package, 10¼x6½x3⅝ inches; packed one-quarter dozen in a box.

THE CINCINNATI (H) TOOL COMPANY
HARGRAVE

BENCH STOP



This is one of the simplest and most effective bench stops in the market.

The shank is easily adjusted to any required angle, and can be turned completely around in case you do not want to mar the work, or taken out to clear the shavings.

The adjusting shank is held by means of a thumb-screw, countersunk in front of the bench, and when not in use it is flush with the surface of the bench.

There are no springs to get out of order, no screw driver needed to operate it, and you do not have to reach under the bench to adjust it.

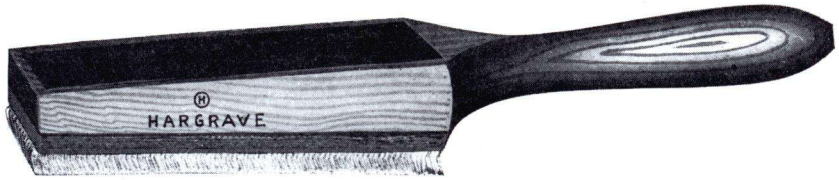
The shank can be raised any distance to 4 inches.

Japanned and polished.

Stock No. 401—Price, per dozen.....$18.00

Weight of package, 7 lbs. 2 oz.; size of package, 7¼x6½x3½ in.; packed one-half dozen in a box.

FILE CLEANER

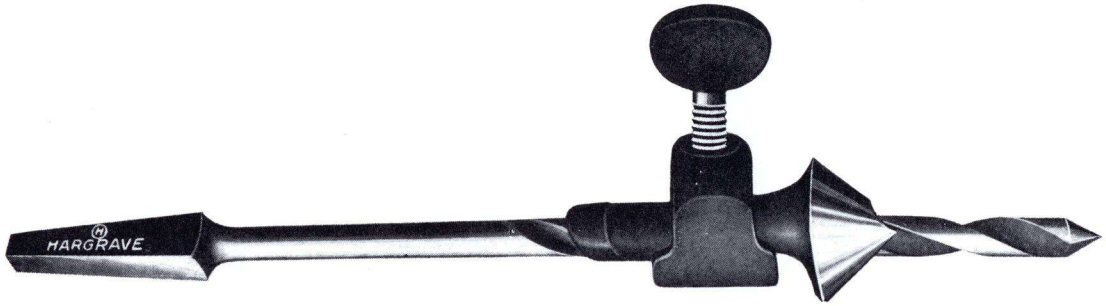


This cut represents our File Cleaner or File Card. The teeth are of tempered steel wire and will not turn over by coming in contact with file. Handles are hardwood, neatly finished.

Stock No. 364—Price, per dozen.....$6.00
" " 3641—Scorers, per dozen..... 1.50

Weight of package, 3 pounds; size of package, 9½x6½x3¼ inches; packed one dozen in box.

ADJUSTABLE COUNTER SINK

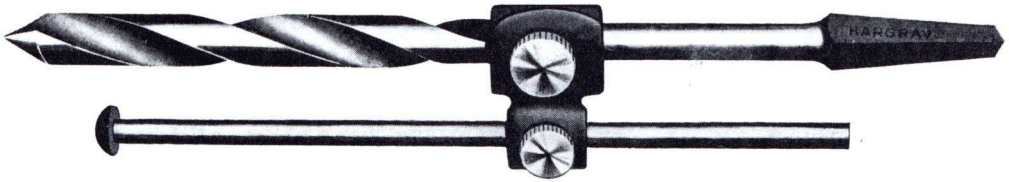


This tool fits any double cut bit from 1/8 to 1/4 inch. It is made of tool steel, well tempered, and by its use the countersinking and boring can be done at the same time. It also acts as a gauge. This is intended for wood only. Japanned and polished

Stock No. 402—Price, per dozen.....$6.00

Weight of package, 11 ounces; size of package, 4 1/2x3 1/4x1 1/4 inches; packed one-half dozen in a box.

BIT GAUGE



By this simple device you can bore holes to any desired depth without withdrawing the bit to measure. We make two sizes, Nos. 403 and 404 The No. 403 can be attached to any make or size of bit under 1 inch. The No. 404 will fit any bit under 2 1/4 inches. Polished pins, steel screws.

Stock No. 403—Price, per dozen.....$4.00.....1 lb., 4 ozs. .....6 3/4x3 x1 5/8 in.
" " 404—Price, per dozen.....$6.00.....3 lbs., 6 ozs. .....8 3/4x3 1/4x2 1/8 in.

CIRCLE METAL CUTTER

For cutting circular holes in sheet metal, wood or fibre. Especially useful for installation of Auto Clocks, etc.

The body of the tool is malleable iron and the blades of best tool steel, ground and tempered for cutting metal.

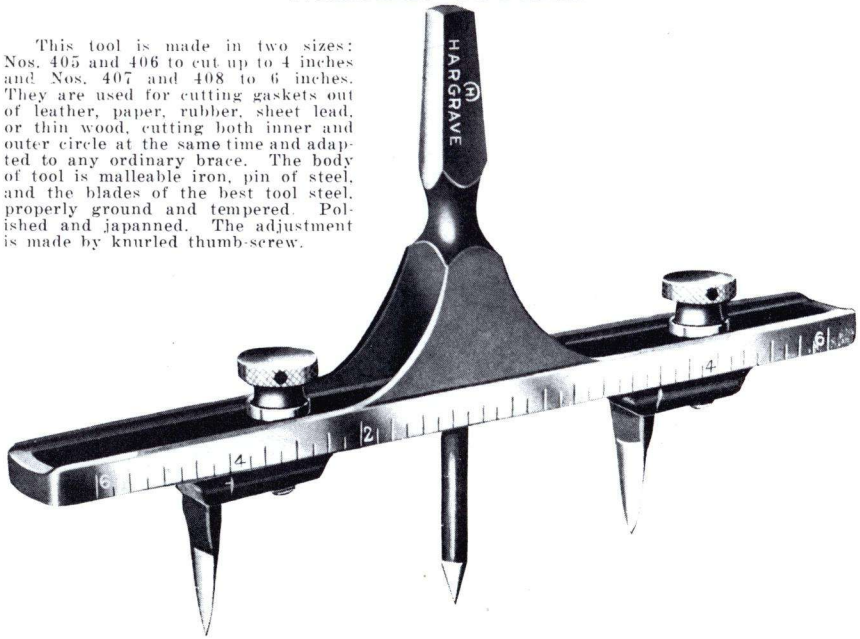
Adjusted by knurled thumb screw. Capacity for cutting circles from 1 inch to 4 inches in diameter to ⅞ inch deep. No. 1405 has steel center guide pin as shown in cut. No 1406 has center drill to bore hole.

	Price Per Doz.	Weight of Package	Size of Package
Stock No. 1405—With center pin...	$30.00	4 lbs. 7 oz.	8x5¼x3½ in.
" " 1406—With center drill..	38.00	4 lbs. 7 oz.	"

Packed one-half dozen in a box.

WASHER CUTTER

This tool is made in two sizes: Nos. 405 and 406 to cut up to 4 inches and Nos. 407 and 408 to 6 inches. They are used for cutting gaskets out of leather, paper, rubber, sheet lead, or thin wood, cutting both inner and outer circle at the same time and adapted to any ordinary brace. The body of tool is malleable iron, pin of steel, and the blades of the best tool steel, properly ground and tempered. Polished and japanned. The adjustment is made by knurled thumb-screw.

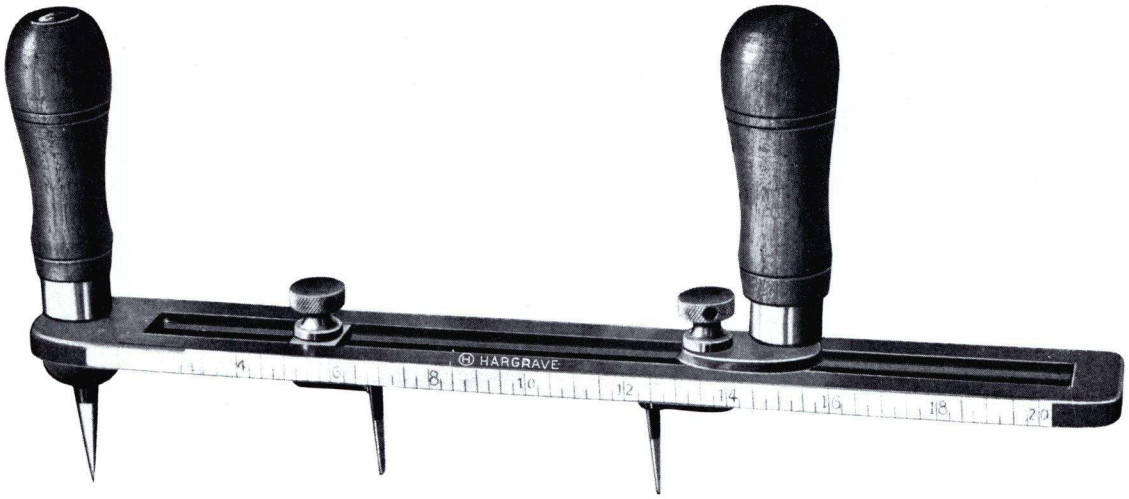


	Price Per Doz.	Weight of Package	Size of Package
Stock No. 405—**4-inch,** with gauge.....	**$18.00**	3 lbs. 11 oz.	6⅜x5¾x3 in.
" " 406—**4-inch,** without gauge..	**15.00**	3 lbs. 11 oz.	6⅜x5¾x3 in.
" " 407—**6-inch,**. with gauge.....	**21.00**	4 lbs.	8 x5¼x3 in.
" " 408—**6-inch,** without gauge..	**18.00**	4 lbs.	8 x5¼x3 in.
" " 409—Knives, only per dozen..	**5.00**		
" " 410—Screws only, per dozen..	**2.00**		

Packed one-half dozen in a box.

WASHER CUTTER

20-Inch



This tool is adapted to cutting gaskets from 4 to 20 inches in diameter. The knives are of the best steel and well temperedfi and are adjusted by knurled thumb-screws. The center pin is also of steeel. The cutter is japanned, polished and has a gauge.

Stock No. 411—Price, per dozen.....$30.00
" " 409—Price, per dozen, knives only..... 5.00
" " 410—Price, per dozen, screws only..... 2.00

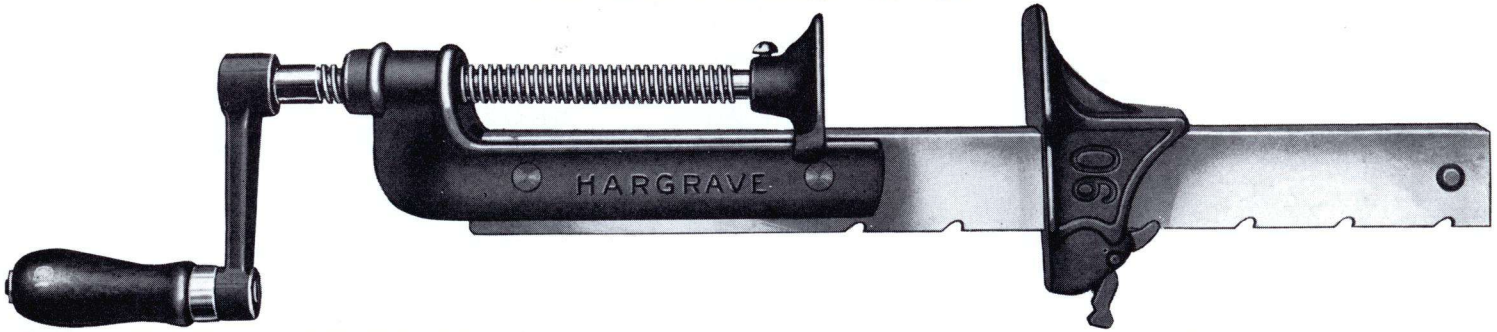
Weight of package, 3 pounds, 13 ounces; size of package, 12x5¼x3⅝ inches; packed one-quarter dozen in a box.

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

SPECIAL NEW ADJUSTABLE CLAMP

STEEL BAR—NOTCHES BELOW—PATENTED



This is a strong, durable, convenient, general purpose clamp. It is especially useful in all wide clamping, such as sash, doors, blinds, furniture, etc. It is made in two patterns—the regular and heavy. The regular pattern has clamping surfaces 2 inches deep, 1⅞ inches wide, and the clamping surfaces of the heavy pattern are 2¼ x 2¼ inches.

NOTE THE FOLLOWING POINTS OF SUPERIORITY:

The bar is high carbon manganese steel, extra heavy, giving great strength. Crank, frame, tip and slide are of the best grade of malleable iron. Dog for slide is tempered steel.

Screw for light clamp is ⅝-inch in diameter, and for heavy clamp, ¾-inch in diameter. It has deep cut Acme thread, with extra long bearing, insuring long life to the clamp. We give list prices for stock sizes per pair (two clamps), as follows:

		Price	Weight Per Pair
Stock No. 412—Per pair, opens **2** feet, 1½ x ¼-inch bars....		**$ 7.60**	13¾ lbs.
" " 413—Per pair, opens **2½** feet, 1½ x ¼-inch bars....		**7.80**	15 lbs.
" " 414—Per pair, opens **3** feet, 1½ x ¼-inch bars....		**8.00**	17 lbs.
" " 415—Per pair, opens **3½** feet, 1½ x ¼-inch bars....		**8.50**	18½ lbs.
" " 416—Per pair, opens **4** feet, 1½ x ¼-inch bars....		**9.00**	20¾ lbs.
" " 417—Per pair, opens **4½** feet, 1½ x ¼-inch bars....		**9.50**	21½ lbs.
" " 418—Per pair, opens **5** feet, 1½ x ¼-inch bars....		**10.00**	22¼ lbs.
" " 419—Per pair, opens **6** feet 1½ x ¼-inch bars....		**11.00**	23¾ lbs.
Stock No. 420—Per pair, opens **3** feet, 1¾ x ⅜-inch bars....		**$16.50**	28¾ lbs.
" " 421—Per pair, opens **4** feet, 1¾ x ⅜-inch bars....		**17.00**	35 lbs.
" " 422—Per pair, opens **5** feet, 1¾ x ⅜-inch bars....		**18.00**	37¼ lbs.
" " 423—Per pair, opens **6** feet, 1¾ x ⅜-inch bars....		**19.00**	41½ lbs.
" " 424—Per pair, opens **7** feet, 1¾ x ⅜-inch bars....		**20.50**	46¾ lbs
" " 425—Per pair, opens **8** feet, 1¾ x ⅜-inch bars....		**22.00**	52½ lbs.
" " 426—Per pair, opens **9** feet, 1¾ x ⅜-inch bars....		**25.00**	55¾ lbs.
" " 427—Per pair, opens **10** feet, 1¾ x ⅜-inch bars....		**28.00**	60¼ lbs.

FRAME

Price, Per Dozen

		Frame
For 1½ x ¼-inch bar...	Stock No. 428...	$12.00
For 1¾ x ⅜-inch bar...	" " 433...	20.00

SLIDE

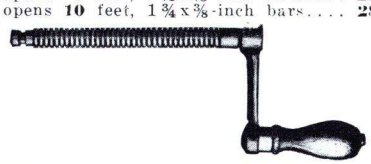
	Slide
Stock No. 429..	$ 9.00
" " 434..	18.00

TIP

	Tip
Stock No. 430..	$ 6.00
" " 435..	12.00

DOG

	Dog
Stock No. 431...	$3.00
" " 436...	5.00



SCREW AND CRANK

	Screw and Crank
Stock No. 432	$ 9.00
" " 437	18.00

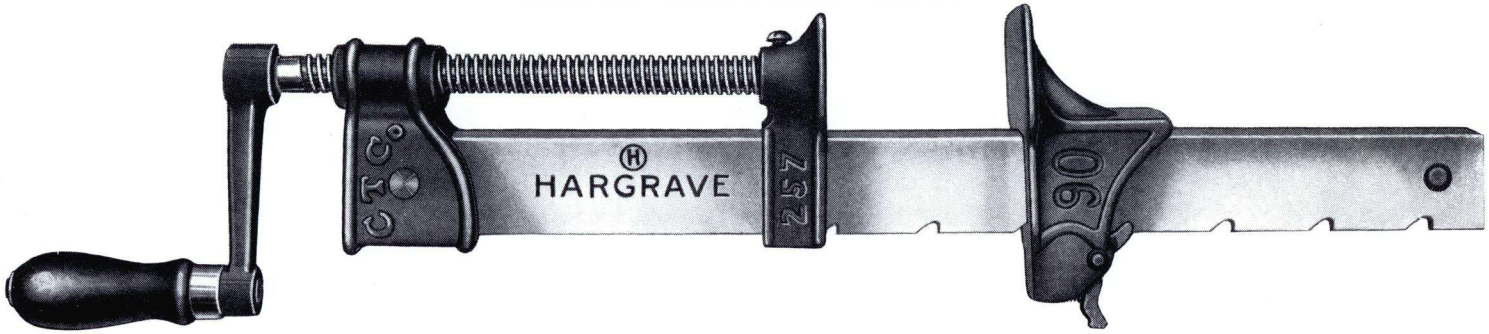
In Ordering Parts Mention Special New Adjustable and Size of Bar.

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

SPECIAL PERFECTION CLAMP

STEEL BAR—NOTCHES BELOW—PATENTED



This is a strong, durable, convenient, general purpose clamp. It is especially useful in all wide clamping, such as sash, doors, blinds, furniture, etc. It is made in two patterns—the regular and heavy. The regular pattern has clamping surfaces 2 inches deep, 1⅞ inches wide, and the clamping surfaces of the heavy pattern are 2¼x2¼ inches.

NOTE THE FOLLOWING POINTS OF SUPERIORITY:

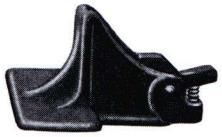
The bar is high carbon manganese steel, extra heavy, giving great strength. Crank, frame, tip and slide are of the best grade of malleable iron. Dog for slide is tempered steel.

Screw for light clamp is ⅝-inch in diameter, and for heavy clamp, ¾-inch indiameter. It has deep cut Acme thread, with extra long bearing, insuring long life to the clamp. We give list prices for stock sizes per pair (two clamps), as follows:

	Price	Weight Per Pair
Stock No. 438—Per pair, opens **2** feet, 1½x¼-inch bars....	**$ 7.60**	12¼ lbs.
" " 439—Per pair, opens **2½** feet, 1½x¼-inch bars....	**7.80**	13 lbs.
" " 440—Per pair, opens **3** feet, 1½x¼-inch bars....	**8.00**	15¼ lbs.
" " 441—Per pair, opens **3½** feet, 1½x¼-inch bars....	**8.50**	16 lbs.
" " 442—Per pair, opens **4** feet, 1½x¼-inch bars....	**9.00**	17¾ lbs.
" " 443—Per pair, opens **4½** feet, 1½x¼-inch bars....	**9.50**	18¾ lbs.
" " 444—Per pair, opens **5** feet, 1½x¼-inch bars....	**10.00**	19¾ lbs.
" " 445—Per pair, opens **6** feet, 1½x¼-inch bars....	**11.00**	22¼ lbs.
Stock No. 446—Per pair, opens **3** feet, 1¾x⅜-inch bars....	**$16.50**	27¼ lbs.
" " 447—Per pair, opens **4** feet, 1¾x⅜-inch bars....	**17.00**	31½ lbs.
" " 448—Per pair, opens **5** feet, 1¾x⅜-inch bars....	**18.00**	35½ lbs.
" " 449—Per pair, opens **6** feet, 1¾x⅜-inch bars....	**19.00**	40 lbs.
" " 450—Per pair, opens **7** feet, 1¾x⅜-inch bars....	**20.50**	44¾ lbs.
" " 451—Per pair, opens **8** feet, 1¾x⅜-inch bars....	**22.00**	50 lbs.
" " 452—Per pair, opens **9** feet, 1¾x⅜-inch bars....	**25.00**	54¼ lbs.
" " 453—Per pair, opens **10** feet, 1¾x⅜-inch bars....	**28.00**	57¾ lbs.

FRAME

Price, Per Dozen		Frame
For 1½x¼-inch bar...	Stock No. 454...	$10.00
For 1¾x⅜-inch bar...	" " 456...	18.00



SLIDE

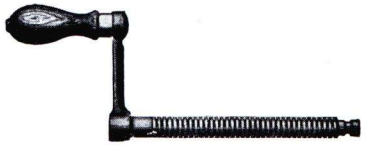
	Slide
Stock No. 429..	$ 9.00
" " 434..	18.00

TIP

	Tip
Stock No. 455..	$ 6.00
" " 457..	12.00

DOG

	Dog
Stock No. 431...	$ 3.00
" " 436...	5.00



SCREW AND CRANK

	Screw and Crank
Stock No. 432	$ 9.00
" " 437	18.00

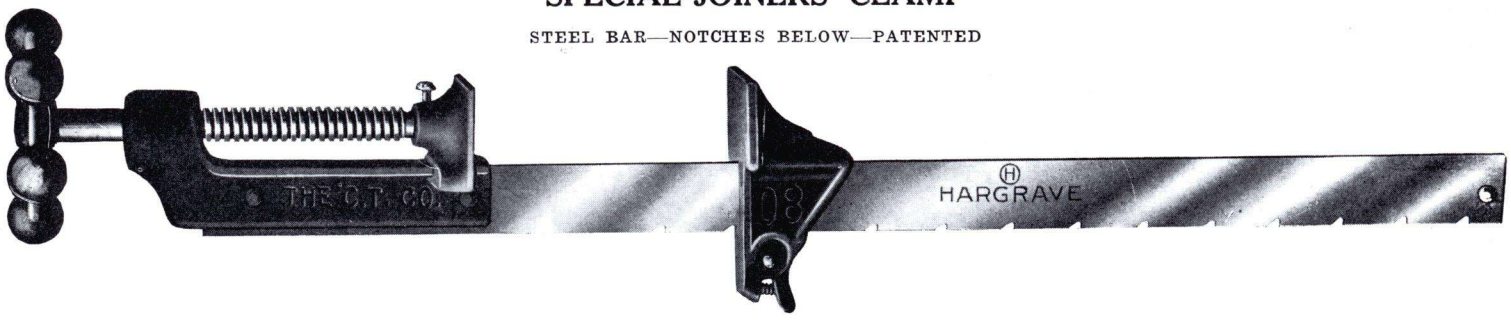
In Ordering Parts Mention Special Perfection and Size of Bar

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

SPECIAL JOINERS' CLAMP

STEEL BAR—NOTCHES BELOW—PATENTED



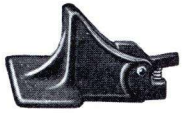
Our joiners' clamp is intended for narrow glueing and clamping where speed and rapidity of handling is more necessary than power. It is made with steel bar, ½-inch, steel Acme thread screw and malleable iron frame, tip, slide and wheel. The parts will not break, slip nor bind. Quickly adjusted, strong, light and durable.

Made in 1, 1½, 2, 2½ and 3-foot lengths, using 1⅛ x 3/16-inch high carbon manganeses steel bars.

Clamping surfaces are 1¼ inches deep and 1⅜ inches wide. We give list prices for stock sizes, per pair (two clamps), as follows:

		Price	Per Pair Weight
Stock No. 458—Per pair, **1** foot		**$6.60**	6 lbs.
" " 459—Per pair, **1½** feet		**6.80**	6¾ lbs.
" " 460—Per pair, **2** feet		**7.00**	7¾ lbs.
" " 461—Per pair, **2½** feet		**7.20**	8¼ lbs.
" " 462—Per pair, **3** feet		**7.40**	9 lbs.

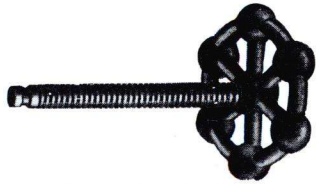
FRAME



SLIDE

TIP

DOG



SCREW AND WHEEL

Price, Per Dozen:	Frame	Slide	Tip	Dog	Screw and Wheel
	Stock No. 463.....$11.00	Stock No. 464..$8.00	Stock No. 465..$6.00	Stock No. 466....$2.50	Stock No. 467.....$8.00

In Ordering Parts, Mention Special Joiners' Clamp.

QUICK CLAMPS

(PATENTED)

The best general purpose clamp. Can be instantly applied or removed from the work. It is handier to operate, takes up less room and saves a great amount of time over the ordinary clamp, as it is not necessary to run down the screw to get any desired opening. It is rigid at any opening, thus overcoming the weakness of the long and easily bent screw of the old "C" clamp. It will not slip or release, as an eccentric clamp will, when hit by a hammer or jarred. You can get any pressure desired with one adjustment for the screw travels 1½ inches. A hardened steel block takes all the wear.

The bar is high carbon manganese steel. Frame and foot are of the best grade of malleable. The screw and wing are steel. Screw has deep cut Acme thread, with long bearing, insuring long life to the tool.

Especially useful in pattern making, boat and ship building and in automobile body work.

We make this clamp in three weights and in any length. The lengths listed below are for stock, but prices of other lengths are in proportion.

Stock No. 498 has steel bar, 1⅛ x 3/16 inches, and is 2 inches deep from center of screw to bar.
" " 500 has steel bar, 1½ x ¼ inches, and is 2½ inches deep from center of screw to bar.
" " 502 has steel bar, 1¾ x ⅜ inches, and is 4⅛ inches deep from center of screw to bar.

Size of Opening	No. 498	Weight	No. 500	Weight	No. 502	Weight
4 inches, per dozen	**$14.50**	20 lbs.	**$18.00**	28 lbs.	**$26.00**	49¾ lbs.
6 inches, per dozen	**15.00**	21½ lbs.	**19.00**	31 lbs.	**28.00**	54½ lbs.
8 inches, per dozen	**15.50**	23 lbs.	**20.00**	34½ lbs.	**30.00**	59 lbs.
10 inches, per dozen	**16.00**	24½ lbs.	**21.00**	36¾ lbs.	**32.00**	65 lbs.
12 inches, per dozen	**16.50**	26 lbs.	**22.00**	38¾ lbs.	**34.00**	76 lbs.
18 inches, per dozen	**18.00**	30½ lbs.	**25.00**	46½ lbs.	**40.00**	87 lbs.
24 inches, per dozen	**20.00**	35 lbs.	**27.00**	55½ lbs.	**46.00**	100 lbs.
30 inches, per dozen	**22.00**	39½ lbs.	**30.00**	64¾ lbs.	**52.00**	112 lbs.
36 inches, per dozen	**24.00**	44 lbs.	**33.00**	71¼ lbs.	**58.00**	124 lbs.
48 inches, per dozen	**28.00**	53 lbs.	**39.00**	87 lbs.	**70.00**	148 lbs.

In Ordering Please Give Stock Number and Size of Opening Desired.

THE CINCINNATI (H) TOOL COMPANY

HARGRAVE

QUICK CLAMPS

(PATENTED)

The best general purpose clamp. Can be instantly applied or removed from the work. It is handier to operate, takes up less room and saves a great amount of time over the ordinary clamp, as it is not necessary to run down the screw to get any desired opening. It is rigid at any opening, thus overcoming the weakness of the long and easily bent screw of the old "C" clamp. It will not slip or release, as an eccentric clamp will, when hit by a hammer or jarred. You can get any pressure desired with one adjustment for the screw travels 1½ inches. A hardened steel block takes all the wear.

The bar is high carbon manganese steel, Frame and foot are of the best grade of malleable. The screw and wing are steel. Screw has deep cut Acme thread, with long bearing, insuring long life to the tool.

Especially useful in pattern making, boat and ship building and in automobile body work.

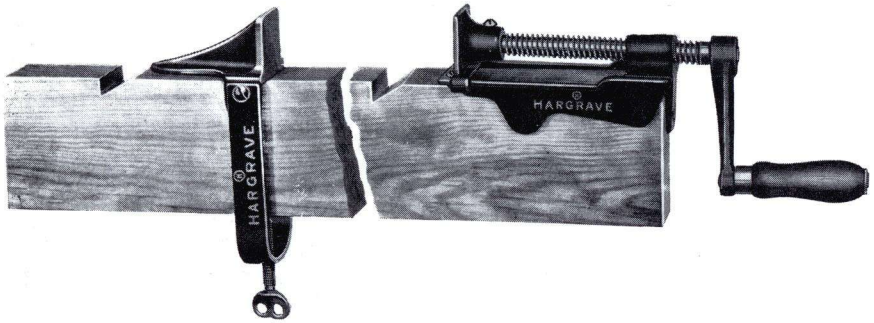
We make this clamp in three weights and in any length. The lengths listed below are for stock, but prices of other lengths are in proportion.

Stock No. 499 has steel bar, 1⅛ x 3/16 inches, and is 2 inches deep from center of screw to bar.
" " 501 has steel bar, 1½ x ¼ inches, and is 2½ inches deep from center of screw to bar.
" " 503 has steel bar, 1¾ x ⅜ inches, and is 4½ inches deep from center of screw to bar.

Size of Opening	No. 499	Weight	No 501	Weight	No. 503	Weight
4 inches, per dozen	$14.50	20 lbs.	$18.00	28 lbs.	$26.00	49¾ lbs.
6 inches, per dozen	15.00	21½ lbs.	19.00	31 lbs.	28.00	54½ lbs.
8 inches, per dozen	15.50	23 lbs.	20.00	34½ lbs.	30.00	59 lbs.
10 inches, per dozen	16.00	24½ lbs.	21.00	36¾ lbs.	32.00	65 lbs.
12 inches, per dozen	16.50	26 lbs.	22.00	38¾ lbs.	34.00	76 lbs.
18 inches, per dozen	18.00	30½ lbs.	25.00	46½ lbs.	40.00	87 lbs.
24 inches, per dozen	20.00	35 lbs.	27.00	55½ lbs.	46.00	100 lbs.
30 inches, per dozen	22.00	39½ lbs.	30.00	64¾ lbs.	52.00	112 lbs.
36 inches, per dozen	24.00	44 lbs.	33.00	71¼ lbs.	58.00	124 lbs.
48 inches, per dozen	28.00	53 lbs.	39.00	87 lbs.	70.00	148 lbs.

In Ordering Please Give Stock Number and Size of Opening Desired.

DETACHABLE CLAMP FIXTURE
Stock No. 614



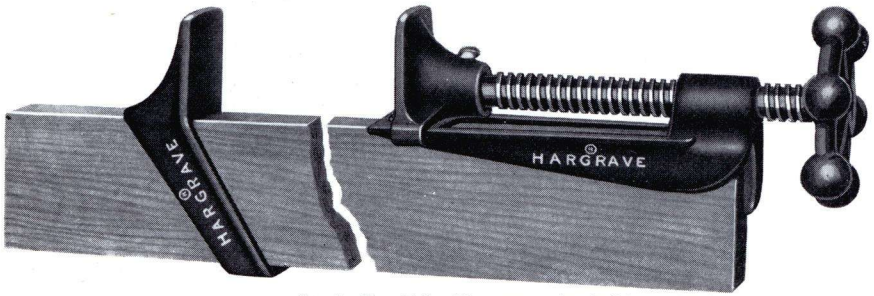
Strong and powerful, for general clamping work. Especially useful for carpenters. Quickly and easily applied to or removed from wood bar, trestle, saw horse or bench. Loop holding Tip to position is attached by machine screws so that it can be taken off permitting the fixtures to be applied to and removed from a trestle without having to knock the legs off the trestle or dismantle it in any way. Will fit a 2x4 inch bar or smaller.

(Carpenters usually have more scrap pieces of 2x4 inch on a job than any other size.)

Frame, Tip, Slide and Crank are malleable iron. Screw is steel ⅞ inch diameter with deep cut "Acme" thread.

Stock No. 614—Fixtures only (without bar).
Price per dozen sets.....$30.00
Packed in bulk. Weight per dozen sets, 48 pounds

CLAMP IRONS OR FIXTURES
Stock No. 615



Designed especially for light cabinet work, sash, door and blind clamping, etc., where speed and rapidity of handling is important.

Frame, Tip and Slide are malleable iron. Screw is steel, ½ inch in diameter and has deep cut "Acme" thread.

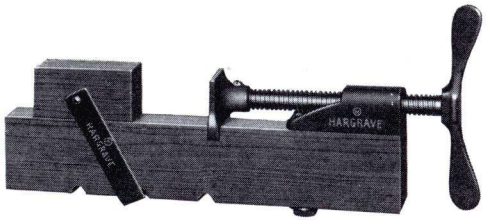
The Hand Wheel adjustment enables the operator to quickly twirl the screw to position and gives a good hand grip for tightening.

Quickly and easily attached to any length wood bar 1⅛x2¼ inches.

Furnished either with or without wood bar. The bars which we furnish are made from selected hardwood, nicely and accurately dressed to size.

	Weight Per Doz. Sets 28 pounds	Price Per Doz.
Stock No. 615—Fixtures only (without bar).		**$15.00**
" " 616—Fixtures mounted on hardwood bar; opening to **1** foot	.....	**21.60**
" " 617 " " " " " opening to **2** feet	.....	**24.00**
" " 618 " " " " " opening to **3** feet	.....	**27.00**
" " 619 " " " " " opening to **4** feet	.....	**30.00**
" " 620 " " " " " opening to **5** feet	.....	**33.00**
" " 621 " " " " " opening to **6** feet	.....	**36.00**

CLAMP HEAD
No. 623



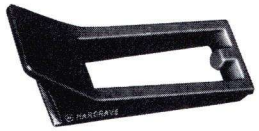
NO WOODEN PARTS ARE FURNISHED IN ANY OF THE FOLLOWING NUMBERS

No. 623—Includes cast iron frame (or nut) and tip with steel screw, malleable handle and bolt for holding frame to bar.

Weight per dozen, 28 lbs. 6 oz.—**Price Each, $0.75; Dozen, $9.00**

No. 624—Steel loop and pin only to fit wood bar, 1⅞x2¼ in. for holding wood block in position.

Weight per dozen, 5 lbs.—**Price Each, $0.15; Dozen, $1.80**



No. 625—Malleable iron slide to fit wood bar, 1⅛x2¼ inches.

Weight per dozen, 6 lbs.

Price Each, $0.25; Dozen, $3.00
Packed in Bulk

BODY CLAMP

Deep and very strong. Designed especially for the Automobile Body trade and work requiring a longer reach than the ordinary "C" Clamp will take care of.

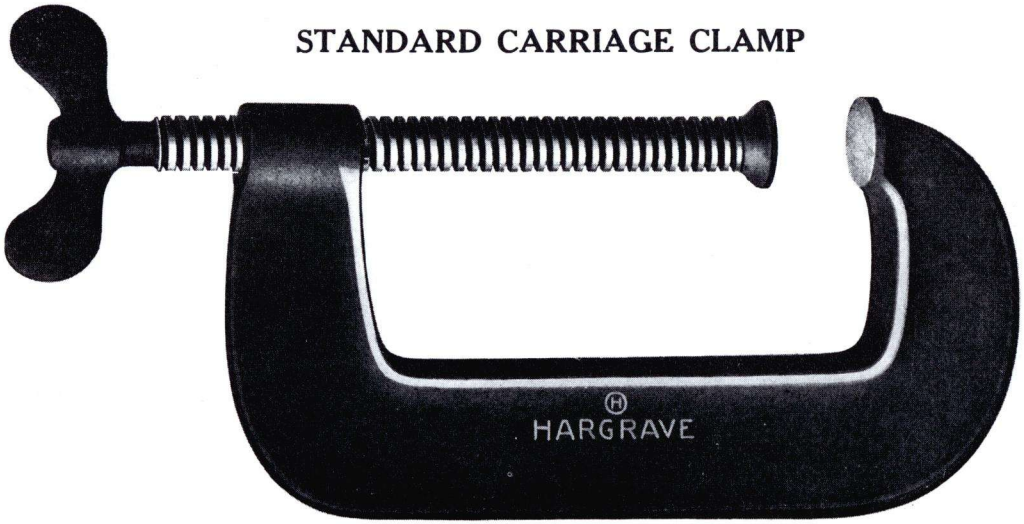
Steel Screw with deep cut "Acme" thread and good bearing, giving more power than the ordinary square thread and lengthening the life of the tool.

Furnished with either button or oscilating (ball and socket) tip. When ordering please state which is wanted.

		Opening	Depth	Weight Each	Price Per Doz.
Stock No.	603	**3** in	2 5/16 in	1 lb. 2 oz	**$11.00**
" "	604	**4** in	2½ in	1 lb. 14½ oz	**14.00**
" "	605	**5** in	3 in	2 lb. 8 oz	**18.00**
" "	606	**6** in	3 5/16 in	3 lb. 3½ oz	**22.00**
" "	607	**7** in	3½ in	3 lb. 14 oz	**28.00**
" "	608	**8** in	3¾ in	4 lb. 14 oz	**34.00**
" "	610	**10** in	4 in	6 lb. 6 oz	**42.00**
" "	612	**12** in	4¼ in	8 lbs. 14 oz	**50.00**

Sizes, 3 to 6 inches, packed one-half dozen in a box. 7 to 12 inches packed in bulk.

STANDARD CARRIAGE CLAMP



This is an exceedingly well made tool. The frame is of the best grade of malleable, heavily reinforced, and so shaped as to give greatest strength for the metal used. Note weights per piece below.

The screw is steel, and large in diameter. It has deep cut "Acme" thread, with proper pitch to give greatest power, and has long bearing, insuring long life to the clamp. On sizes 2½-inch to 6-inch, inclusive screws close down entire openings of clamp. Upon 7-inch clamps screws are 1 inch short; upon 8-inch clamp, 2 inches short; upon 10-inch clamp, 3 inches short and upon 12-inch clamp they are 4 inches short. Full length screws can be furnished when desired, but are not carried in stock. The tip turns on the screw easily and stays there. We furnish these clamps regularly with button tips, as illustrated above, but can furnish them with oscillating (ball and socket) tips, when specified.

	Opening	Depth From Center of Screw	List Price	Weight Each	Size of Package
Stock No. 536—Per Dozen	2½ in.	1¾ in.	**$ 7.00**	10 oz.	7½ x 4⅜ x 3½ in.
" " 537—Per Dozen	3 in.	1⅞ in.	**8.00**	13 oz.	8¼ x 4½ x 3⅞ in.
" " 538—Per Dozen	4 in.	2¼ in.	**11.00**	1 lb. 8 oz.	9¼ x 5⅛ x 4⅜ in.
" " 539—Per Dozen	5 in.	2½ in.	**14.00**	1 lb. 14 oz.	11½ x 5⅝ x 4½ in.
" " 540—Per Dozen	6 in.	2¾ in.	**18.00**	2 lb. 4 oz.	12½ x 6¼ x 5 in.
" " 541—Per Dozen	7 in.	3 in.	**22.00**	3 lb.	
" " 542—Per Dozen	8 in.	3¼ in.	**28.00**	3 lb. 10 oz.	
" " 544—Per Dozen	10 in.	3⅝ in.	**36.00**	5 lb. 6 oz.	
" " 545—Per Dozen	12 in.	3⅝ in.	**46.00**	7 lb. 7 oz.	

Sizes, 2½ to 6 inches, packed one-half dozen in a box. 7 to 12 inches, packed in bulk.

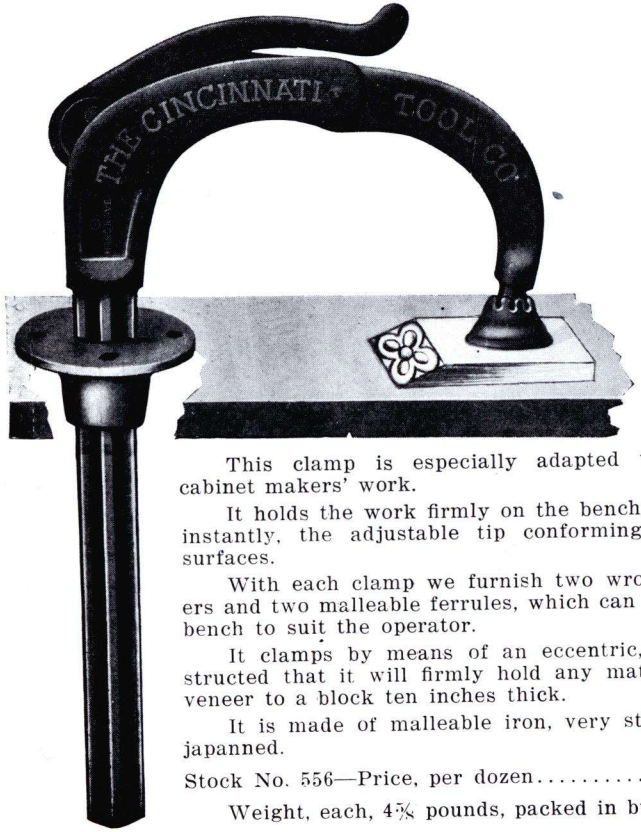
MACHINISTS CLAMP

This represents our heavy machinists' clamp. The frame, tip and handle are made of malleable iron. The screw is steel with Acme thread. We make three sizes; the 5-inch clamp, with a ¾-inch screw; the 7-inch with a ¾-inch screw, and the 10-inch with a ⅞-inch screw.

		Weight Each
Stock No. 553—Per dozen, opening **5 inches,** depth 3 inches	**$17.00**	4 lbs., 4 oz.
" " 554—Per dozen, opening **7 inches,** depth 3 inches	**20.00**	5 lbs., 7 oz.
" " 555—Per dozen, opening **10 inches,** depth 5 inches	**34.00**	10 lbs., 9 oz.

Packed in bulk only.

ADJUSTABLE CARVERS' CLAMP



This clamp is especially adapted to carvers and cabinet makers' work.

It holds the work firmly on the bench, and can be set instantly, the adjustable tip conforming to all uneven surfaces.

With each clamp we furnish two wrought iron washers and two malleable ferrules, which can be placed in the bench to suit the operator.

It clamps by means of an eccentric, and is so constructed that it will firmly hold any material, from thin veneer to a block ten inches thick.

It is made of malleable iron, very strong and neatly japanned.

Stock No. 556—Price, per dozen..... $36.00

Weight, each, 4⅝ pounds, packed in bulk.

JUNIOR CLAMP

A well made and nicely finished small clamp. Most useful on jig and pattern work; for light glueing; jewelers' and instrument work.

Stock No. 557—Opens 1 inch, reach ½-inch. Machine cut screw, 10-24 thread; easy turning; button tip; frame enameled.

Price, per dozen.....$3.00

Packed three dozen in box; size of box, 4¼x2¼x3¼ inches; weight per box, 2 lbs., 12 oz.

Stock No. 570—Opens 1½ inches, reach 1⅛ inches. Machine cut screw, 14-20 thread; easy turning; button tip. Frame malleable iron, enameled.

Price, per dozen.....$5.00

Packed one dozen in a box; size of box, 5x4x2½ inches; weight of box, 2 lbs. 6 oz.

QUILT CLAMP

The entire clamp is made of malleable iron. We use a machine-cut V-thread on the screw and button tip. Especially adapted for quilt frames and curtain stretchers. This tool should not be confused with the ordinary cast screw quilt clamp, as it is well made, strong and durable.

	Opening	Depth		Weight of Package	Size of Package
Stock No. 546—Per dozen,	1½ in.	1¼ in.	$2.50	4¼ lbs.	8x5x3 in.
" " 547—Per dozen,	2 in.	1¼ in.	3.00	4¾ lbs.	8x5x3 in.
" " 548—Per dozen,	3 in.	1⅜ in.	3.50	7 lbs.	8x6x3¾ in.

Packed one dozen in a box.

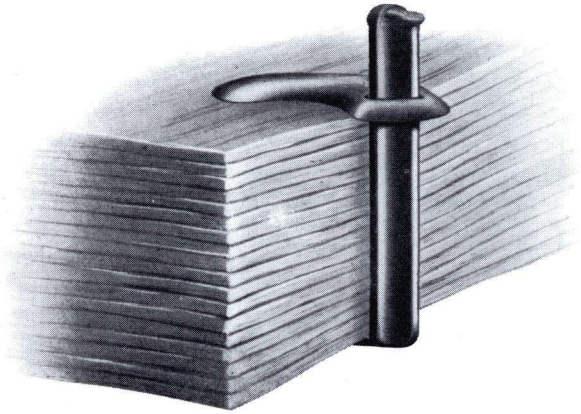
CABINET CLAMP

This is made especially for cabinet and pattern makers, molders and amateur wood-workers, being light, strong and durable.

It is made entirely of malleable iron, V-thread screw and adjustable or oscilating tip. Well japanned.

	Opening	Depth		Weight of Package	Size Of Package
Stock No. 549—Per dozen,	2 in.	1⅛ in.	$3.00	2½ lbs.	5 x4 x2¼ in.
" " 550—Per dozen,	3 in.	1¼ in.	3.50	3½ lbs.	6½x3¼x2⅝ in.

Packed one-half dozen in a box.

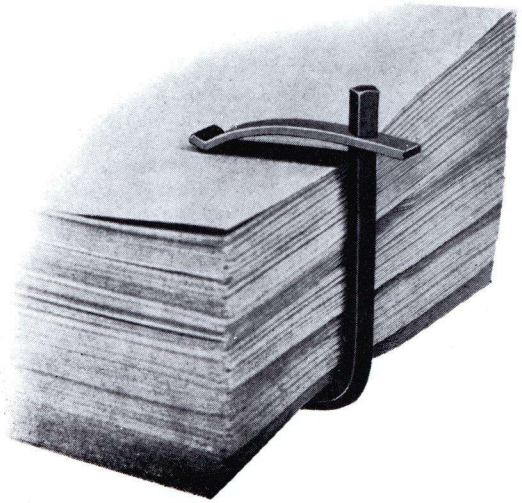


CLOTH CUTTERS' CLAMP

This cut represents our improved cloth cutters' clamp, made entirely of malleable iron. It will take in cloth up to a thickness of 2¼ inches, and is automatic in its action, holding the cloth securely when clamped on the work; having no screw it is instantly adjusted, and as quickly released. It is, without doubt, the best cloth clamp on the market.

Stock No 551—Price, per gross.....$10.00

Weight of package, 4 pounds 7 ounces; size of package, 7½x4¼x3 inches; packed three dozen in a box.



This clamp is made of steel. It has greater capacity than the No. 551, taking in cloth up to 3 inches in thickness, and jaws are 1¾ inches deep. It can be furnished any size larger than regular, for 5 per cent additional for each inch.

Stock No. 552—Price, per gross.....$15.00

Packed three dozen in a box. Weight of package, 5 pounds, 8 ounces. Size of package 8x5x3¼ inches.

THE CINCINNATI Ⓗ TOOL COMPANY
HARGRAVE

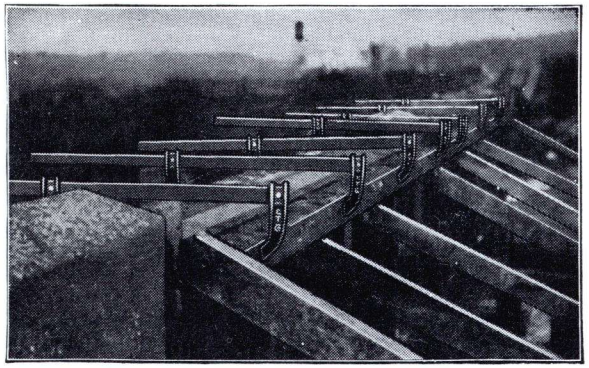
DOG CLAMP
FOR CONCRETE FORMS

Light in weight, yet very stiff and strong, this clamp will outlast many wooden clamps and any similar iron clamp. The bar is special steel—tough, stiff and very durable The foot and clutch are designed to give maximum strength and resistance to wear. They are built so that once applied, they can not slip off the work.

Great durability, light weight, simplicity and low cost are the chief advantages of this clamp.

There is nothing about the clamp to wear out except the clutch. This can be replaced at a small expense when necessary. The clutch is now strongly reinforced to give the maximum resistance to the pounding which it must undergo.

The light clamp is 4 inches deep from bar to end of jaw. Bar is 1½x¼ inches. The heavy clamp is 5 inches deep from bar to end of jaw. Bar is 1¾x⅜ inches. High carbon manganese steel used in bars.



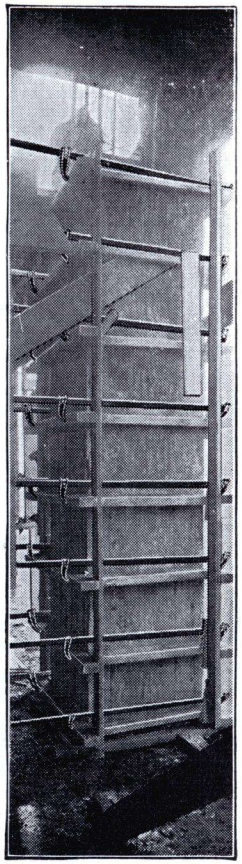
Showing clamps on top of wall or railing

Prices and Weights per 100 Pieces

	Bar 1½x¼ inch.			Bar 1¾x⅜ inch		
Size of Opening	Stock No.	Price	Weight Lbs.	Stock No.	Price	Weight Lbs.
22	296	$120.00	540	301	$190.00	850
30	297	140.00	630	302	220.00	1,000
36	298	150.00	695	303	240.00	1,100
42	299	160.00	760	304	260.00	1,220
48	300	175.00	825	305	290.00	1,330

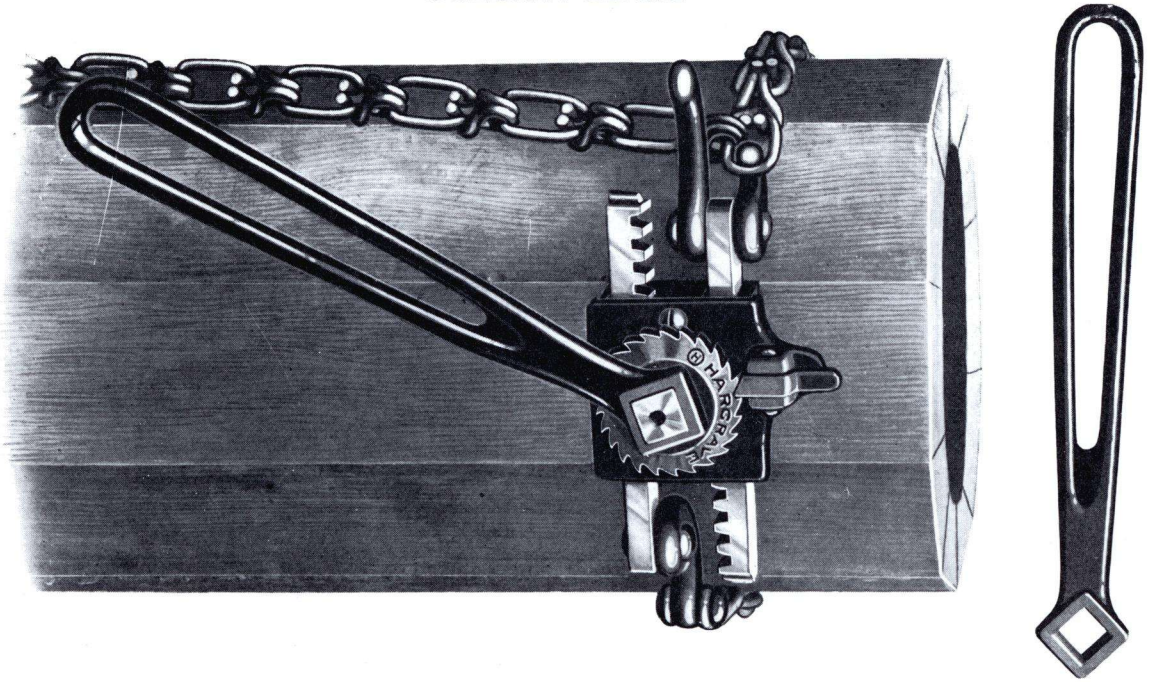
The weights are approximate.

Other lengths at proportionate prices.



Showing clamps on column forms

COLUMN CLAMP



This clamp is of the latest and most practical design, quickest in operation, and made from the very best material. A double rack and pinion gives the speed in both clamping and unclamping, and draws each end of the chain equally.

Stock No. 560—Price per dozen, with 4 ft. of chain.....$36.00

Extra length chain, 20 cents per foot.

One wrench with each clamp.

Weight, 5¼ lbs. each.

SAW VISE
No. 558

SAW VISE
No. 559

In the above we represent our No. 558 Saw Vise, which is made especially for shop use. It is attached to the bench by means of a base upon which the vise swings backward or forward, being held in position by a heavy bolt and thumbnut. The vise is opened and closed by means of a square thread, malleable thumbscrew, at the bottom of the front jaw. The jaws are 8¾ inches in length, and the surfaces ground true.

Stock No. 558—List price, per dozen.....$20.00

The description of our No. 558 will answer for that of our No. 559, excepting in its attachment to the bench. In this vise we use a malleable clamp and screw. On account of the manner of attachment to the bench, this is especially adapted to outside work.

Stock No. 559—List price, per dozen.....$24.00

Weight, 5 pounds, packed in bulk.

This scan is of the public domain content of the 1981 reprint by Roger K. Smith.